October 1, 2021

Incorporated Village of Mineola
PWS ID No. NY2902839
MCL Deferral for 1,4-dioxane, PFOA, and PFOS
Quarterly Report – Third 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 under regulatory review. Detailed design documents for the facility were submitted to the Nassau County and New York State Health Departments in the third quarter of 2021. While these documents are being reviewed, the Village will prepare for the public bidding process.

Although it has been granted a deferral, the Village did not use this well to supply drinking water in the third 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 third 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 |
|---|---|
| | 8/3/2021 |
| Well 4 (N-3185) | 0.63 |

**PFOA (ppt)**

| Well | Date |
|---|---|
| | 8/3/2021 |
| Well 4 (N-3185) | 4.5 |

**PFOS (ppt)**

| Well | Date |
|---|---|
| | 8/3/2021 |
| Well 4 (N-3185) | 24.1 |

**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

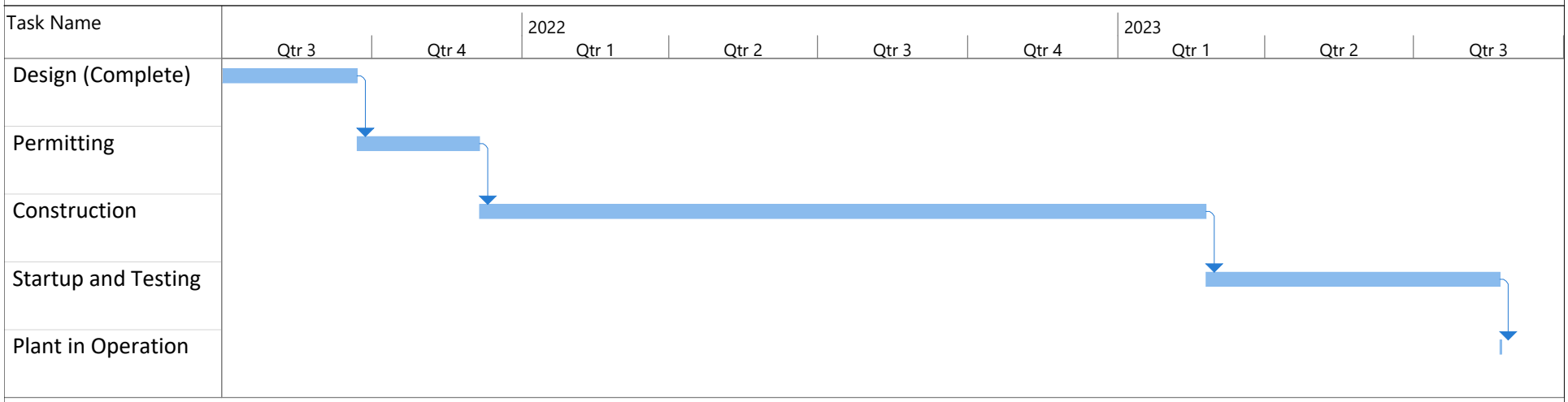
Enclosures
cc: K. Wheeler (NYSDOH)
B. Rogers (NYSDOH)
W. Provoncha (NCDH)
P. Young (NCDH)
R. Putnam (NCDH)
T. Rini (IVM)
J. Martin (IVM)
B. Merklin (D&B)
P. Connell (D&B)

**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

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

August 20, 2021

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

RE: Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

Dear James Martin:

Enclosed are the analytical results for sample(s) received by the laboratory on August 03, 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

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## CERTIFICATIONS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Pace Analytical Services Ormond Beach**
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
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
Maine Certification #: FL01264
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**
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## SAMPLE SUMMARY

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **70182755001** | **N-00097** | Drinking Water | 08/03/21 10:30 | 08/03/21 16:35 |
| **70182755002** | **N-00097 FB** | Drinking Water | 08/03/21 10:30 | 08/03/21 16:35 |
| **70182755003** | **AS-00097** | Drinking Water | 08/03/21 10:40 | 08/03/21 16:35 |
| **70182755004** | **N-03185** | Drinking Water | 08/03/21 11:20 | 08/03/21 16:35 |
| **70182755005** | **N-03185 FB** | Drinking Water | 08/03/21 11:20 | 08/03/21 16:35 |
| **70182755006** | **AS-03185** | Drinking Water | 08/03/21 11:30 | 08/03/21 16:35 |
| **70182755007** | **N-04082** | Drinking Water | 08/03/21 09:45 | 08/03/21 16:35 |
| **70182755008** | **N-04082 FB** | Drinking Water | 08/03/21 09:45 | 08/03/21 16:35 |
| **70182755009** | **N-05596** | Drinking Water | 08/03/21 10:10 | 08/03/21 16:35 |
| **70182755010** | **N-05596 FB** | Drinking Water | 08/03/21 10:10 | 08/03/21 16:35 |

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## SAMPLE ANALYTE COUNT

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **70182755001** | **N-00097** | SM22 9223B Colilert | GFD | 2 | PACE-MV |
| | | EPA 522 | TJD | 2 | PACE-MV |
| | | EPA 524.2 | KGG | 62 | PACE-MV |
| | | EPA 537.1 | SWR | 9 | PASI-O |
| | | EPA 353.2 | PGL | 2 | PACE-MV |
| | | EPA 353.2 | PGL | 1 | PACE-MV |
| **70182755002** | **N-00097 FB** | EPA 537.1 | CMB | 9 | PASI-O |
| **70182755003** | **AS-00097** | EPA 524.2 | KGG | 62 | PACE-MV |
| | | EPA 353.2 | PGL | 2 | PACE-MV |
| | | EPA 353.2 | PGL | 1 | PACE-MV |
| **70182755004** | **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 | SWR | 9 | PASI-O |
| | | EPA 353.2 | PGL | 2 | PACE-MV |
| | | EPA 353.2 | PGL | 1 | PACE-MV |
| **70182755005** | **N-03185 FB** | EPA 537.1 | CMB | 9 | PASI-O |
| **70182755006** | **AS-03185** | EPA 524.2 | KGG | 62 | PACE-MV |
| | | EPA 353.2 | PGL | 2 | PACE-MV |
| | | EPA 353.2 | PGL | 1 | PACE-MV |
| **70182755007** | **N-04082** | SM22 9223B Colilert | GFD | 2 | PACE-MV |
| | | EPA 522 | TJD | 2 | PACE-MV |
| | | EPA 524.2 | KGG | 62 | PACE-MV |
| | | EPA 537.1 | SWR | 9 | PASI-O |
| | | EPA 353.2 | PGL | 2 | PACE-MV |
| | | EPA 353.2 | PGL | 1 | PACE-MV |
| **70182755008** | **N-04082 FB** | EPA 537.1 | CMB | 9 | PASI-O |
| **70182755009** | **N-05596** | SM22 9223B Colilert | GFD | 2 | PACE-MV |
| | | EPA 522 | TJD | 2 | PACE-MV |
| | | EPA 524.2 | KGG | 62 | PACE-MV |
| | | EPA 537.1 | SWR | 9 | PASI-O |
| | | EPA 353.2 | PGL | 2 | PACE-MV |
| | | EPA 353.2 | PGL | 1 | PACE-MV |
| **70182755010** | **N-05596 FB** | EPA 537.1 | CMB | 9 | PASI-O |

PACE-MV = Pace Analytical Services - Melville
PASI-O = Pace Analytical Services - Ormond Beach

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-00097** **Lab ID: 70182755001** Collected: 08/03/21 10:30 Received: 08/03/21 16:35 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<br>Pace Analytical Services - Melville | | | | | | | | |
| Total Coliforms | **Absent** | | | | 1 | 08/03/21 19:15 | 08/04/21 13:15 | | |
| E.coli | **Absent** | | | | 1 | 08/03/21 19:15 | 08/04/21 13:15 | | |
| **522 MSS 1,4 Dioxane (SIM)** | Analytical Method: EPA 522 Preparation Method: EPA 522<br>Pace Analytical Services - Melville | | | | | | | | |
| 1,4-Dioxane (p-Dioxane) | **0.15** | ug/L | 0.020 | | 1 | 08/10/21 15:21 | 08/11/21 16:46 | 123-91-1 | |
| ***Surrogates*** | | | | | | | | | |
| 1,4-Dioxane-d8 (S) | 89 | % | 70-130 | | 1 | 08/10/21 15:21 | 08/11/21 16:46 | | |
| **524.2 MSV** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Melville | | | | | | | | |
| Benzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 71-43-2 | |
| Bromobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 108-86-1 | |
| Bromochloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 74-97-5 | |
| Bromodichloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 75-27-4 | |
| Bromoform | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 75-25-2 | |
| Bromomethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 74-83-9 | |
| n-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 104-51-8 | |
| sec-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 135-98-8 | |
| tert-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 98-06-6 | |
| Carbon tetrachloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 56-23-5 | |
| Chlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 108-90-7 | |
| Chlorodifluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 75-45-6 | N3 |
| Chloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 75-00-3 | |
| Chloroform | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 67-66-3 | |
| Chloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 74-87-3 | |
| 2-Chlorotoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 95-49-8 | |
| 4-Chlorotoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 106-43-4 | |
| Dibromochloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 124-48-1 | |
| Dibromomethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 75-71-8 | IL |
| 1,1-Dichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.89** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 10061-02-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-00097** **Lab ID: 70182755001** Collected: 08/03/21 10:30 Received: 08/03/21 16:35 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 | | 08/07/21 13:44 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 98-82-8 | |
| p-Isopropyltoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 99-87-6 | |
| Methylene Chloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 75-09-2 | |
| Methyl-tert-butyl ether | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 1634-04-4 | |
| n-Propylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 103-65-1 | |
| Styrene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 79-34-5 | |
| Tetrachloroethene | **1.7** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 127-18-4 | |
| Toluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 108-88-3 | |
| Total Trihalomethanes (Calc.) | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | | |
| 1,2,3-Trichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 79-00-5 | |
| Trichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 79-01-6 | |
| Trichlorofluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 76-13-1 | L2,N3 |
| 1,2,4-Trimethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 108-67-8 | |
| Vinyl chloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 75-01-4 | |
| m&p-Xylene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 179601-23-1 | |
| o-Xylene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:44 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 104 | % | 70-130 | | 1 | | 08/07/21 13:44 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 111 | % | 70-130 | | 1 | | 08/07/21 13:44 | 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 | 08/16/21 11:50 | 08/19/21 14:42 | 375-73-5 | |
| Perfluoroheptanoic acid | **<1.9** | ng/L | 1.9 | | 1 | 08/16/21 11:50 | 08/19/21 14:42 | 375-85-9 | |
| Perfluorohexanesulfonic acid | **<1.9** | ng/L | 1.9 | | 1 | 08/16/21 11:50 | 08/19/21 14:42 | 355-46-4 | |
| Perfluorononanoic acid | **<1.9** | ng/L | 1.9 | | 1 | 08/16/21 11:50 | 08/19/21 14:42 | 375-95-1 | |
| Perfluorooctanesulfonic acid | **<1.9** | ng/L | 1.9 | 10 | 1 | 08/16/21 11:50 | 08/19/21 14:42 | 1763-23-1 | |
| Perfluorooctanoic acid | **3.1** | ng/L | 1.9 | 10 | 1 | 08/16/21 11:50 | 08/19/21 14:42 | 335-67-1 | |
| ***Surrogates*** | | | | | | | | | |
| 13C2-PFDA (S) | 113 | % | 70-130 | | 1 | 08/16/21 11:50 | 08/19/21 14:42 | | |
| 13C2-PFHxA (S) | 111 | % | 70-130 | | 1 | 08/16/21 11:50 | 08/19/21 14:42 | | |
| HFPO-DAS (S) | 107 | % | 70-130 | | 1 | 08/16/21 11:50 | 08/19/21 14:42 | | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-00097** **Lab ID: 70182755001** Collected: 08/03/21 10:30 Received: 08/03/21 16:35 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<br>Pace Analytical Services - Melville | | | | | | | | |
| Nitrate as N | **3.2** | mg/L | 0.25 | | 5 | | 08/04/21 01:09 | 14797-55-8 | |
| Nitrate-Nitrite (as N) | **3.2** | mg/L | 0.25 | | 5 | | 08/04/21 01:09 | 7727-37-9 | |
| **353.2 Nitrogen, NO2** | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville | | | | | | | | |
| Nitrite as N | **<0.050** | mg/L | 0.050 | | 1 | | 08/03/21 21:47 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-00097 FB** **Lab ID: 70182755002** Collected: 08/03/21 10:30 Received: 08/03/21 16:35 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<br>Pace Analytical Services - Ormond Beach | | | | | | | | |
| Perfluorobutanesulfonic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/11/21 11:19 | 08/14/21 19:34 | 375-73-5 | |
| Perfluoroheptanoic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/11/21 11:19 | 08/14/21 19:34 | 375-85-9 | |
| Perfluorohexanesulfonic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/11/21 11:19 | 08/14/21 19:34 | 355-46-4 | |
| Perfluorononanoic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/11/21 11:19 | 08/14/21 19:34 | 375-95-1 | |
| Perfluorooctanesulfonic acid | **<1.8** | ng/L | 1.8 | 10 | 1 | 08/11/21 11:19 | 08/14/21 19:34 | 1763-23-1 | |
| Perfluorooctanoic acid | **<1.8** | ng/L | 1.8 | 10 | 1 | 08/11/21 11:19 | 08/14/21 19:34 | 335-67-1 | |
| ***Surrogates*** | | | | | | | | | |
| 13C2-PFDA (S) | 119 | % | 70-130 | | 1 | 08/11/21 11:19 | 08/14/21 19:34 | | |
| 13C2-PFHxA (S) | 118 | % | 70-130 | | 1 | 08/11/21 11:19 | 08/14/21 19:34 | | |
| HFPO-DAS (S) | 117 | % | 70-130 | | 1 | 08/11/21 11:19 | 08/14/21 19:34 | | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: AS-00097** **Lab ID: 70182755003** Collected: 08/03/21 10:40 Received: 08/03/21 16:35 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | Reg. Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Melville | | | | | | | | |
| Benzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 71-43-2 | |
| Bromobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 108-86-1 | |
| Bromochloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 74-97-5 | |
| Bromodichloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 75-27-4 | |
| Bromoform | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 75-25-2 | |
| Bromomethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 74-83-9 | |
| n-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 104-51-8 | |
| sec-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 135-98-8 | |
| tert-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 98-06-6 | |
| Carbon tetrachloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 56-23-5 | |
| Chlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 108-90-7 | |
| Chlorodifluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 75-45-6 | N3 |
| Chloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 75-00-3 | |
| Chloroform | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 67-66-3 | |
| Chloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 74-87-3 | |
| 2-Chlorotoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 95-49-8 | |
| 4-Chlorotoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 106-43-4 | |
| Dibromochloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 124-48-1 | |
| Dibromomethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 75-71-8 | IL |
| 1,1-Dichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 10061-02-6 | |
| Ethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 98-82-8 | |
| p-Isopropyltoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 99-87-6 | |
| Methylene Chloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 75-09-2 | |
| Methyl-tert-butyl ether | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 1634-04-4 | |
| n-Propylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 103-65-1 | |
| Styrene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 79-34-5 | |
| Tetrachloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 127-18-4 | |

## REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
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## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: AS-00097** **Lab ID: 70182755003** Collected: 08/03/21 10:40 Received: 08/03/21 16:35 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 | | 08/07/21 12:52 | 108-88-3 | |
| Total Trihalomethanes (Calc.) | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | | |
| 1,2,3-Trichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 79-00-5 | |
| Trichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 79-01-6 | |
| Trichlorofluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 76-13-1 | L2,N3 |
| 1,2,4-Trimethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 108-67-8 | |
| Vinyl chloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 75-01-4 | |
| m&p-Xylene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 179601-23-1 | |
| o-Xylene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 12:52 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 115 | % | 70-130 | | 1 | | 08/07/21 12:52 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 117 | % | 70-130 | | 1 | | 08/07/21 12:52 | 460-00-4 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| | Pace Analytical Services - Melville | | | | | | | | |
| Nitrate as N | **3.2** | mg/L | 0.25 | | 5 | | 08/04/21 01:13 | 14797-55-8 | |
| Nitrate-Nitrite (as N) | **3.2** | mg/L | 0.25 | | 5 | | 08/04/21 01:13 | 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 | | 08/03/21 21:53 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

# ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-03185** **Lab ID: 70182755004** Collected: 08/03/21 11:20 Received: 08/03/21 16:35 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<br>Pace Analytical Services - Melville | | | | | | | | |
| Total Coliforms | **Absent** | | | | 1 | 08/03/21 19:15 | 08/04/21 13:15 | | |
| E.coli | **Absent** | | | | 1 | 08/03/21 19:15 | 08/04/21 13:15 | | |
| **522 MSS 1,4 Dioxane (SIM)** | Analytical Method: EPA 522 Preparation Method: EPA 522<br>Pace Analytical Services - Melville | | | | | | | | |
| 1,4-Dioxane (p-Dioxane) | **0.63** | ug/L | 0.020 | | 1 | 08/10/21 15:21 | 08/11/21 17:04 | 123-91-1 | |
| ***Surrogates*** | | | | | | | | | |
| 1,4-Dioxane-d8 (S) | 91 | % | 70-130 | | 1 | 08/10/21 15:21 | 08/11/21 17:04 | | |
| **524.2 MSV** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Melville | | | | | | | | |
| Benzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 71-43-2 | |
| Bromobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 108-86-1 | |
| Bromochloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 74-97-5 | |
| Bromodichloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 75-27-4 | |
| Bromoform | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 75-25-2 | |
| Bromomethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 74-83-9 | |
| n-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 104-51-8 | |
| sec-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 135-98-8 | |
| tert-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 98-06-6 | |
| Carbon tetrachloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 56-23-5 | |
| Chlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 108-90-7 | |
| Chlorodifluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 75-45-6 | N3 |
| Chloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 75-00-3 | |
| Chloroform | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 67-66-3 | |
| Chloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 74-87-3 | |
| 2-Chlorotoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 95-49-8 | |
| 4-Chlorotoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 106-43-4 | |
| Dibromochloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 124-48-1 | |
| Dibromomethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 75-71-8 | IL |
| 1,1-Dichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 107-06-2 | |
| 1,1-Dichloroethene | **0.51** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 10061-02-6 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-03185** **Lab ID: 70182755004** Collected: 08/03/21 11:20 Received: 08/03/21 16:35 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 | | 08/07/21 14:10 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 98-82-8 | |
| p-Isopropyltoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 99-87-6 | |
| Methylene Chloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 75-09-2 | |
| Methyl-tert-butyl ether | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 1634-04-4 | |
| n-Propylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 103-65-1 | |
| Styrene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 79-34-5 | |
| Tetrachloroethene | **7.7** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 127-18-4 | |
| Toluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 108-88-3 | |
| Total Trihalomethanes (Calc.) | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | | |
| 1,2,3-Trichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 79-00-5 | |
| Trichloroethene | **8.9** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 79-01-6 | |
| Trichlorofluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 76-13-1 | L2,N3 |
| 1,2,4-Trimethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 108-67-8 | |
| Vinyl chloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 75-01-4 | |
| m&p-Xylene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 179601-23-1 | |
| o-Xylene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:10 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 121 | % | 70-130 | | 1 | | 08/07/21 14:10 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 111 | % | 70-130 | | 1 | | 08/07/21 14:10 | 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 | **2.2** | ng/L | 1.8 | | 1 | 08/16/21 11:50 | 08/19/21 00:03 | 375-73-5 | |
| Perfluoroheptanoic acid | **4.4** | ng/L | 1.8 | | 1 | 08/16/21 11:50 | 08/19/21 00:03 | 375-85-9 | |
| Perfluorohexanesulfonic acid | **5.8** | ng/L | 1.8 | | 1 | 08/16/21 11:50 | 08/19/21 00:03 | 355-46-4 | |
| Perfluorononanoic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/16/21 11:50 | 08/19/21 00:03 | 375-95-1 | |
| Perfluorooctanesulfonic acid | **4.5** | ng/L | 1.8 | 10 | 1 | 08/16/21 11:50 | 08/19/21 00:03 | 1763-23-1 | |
| Perfluorooctanoic acid | **24.1** | ng/L | 1.8 | 10 | 1 | 08/16/21 11:50 | 08/19/21 00:03 | 335-67-1 | |
| ***Surrogates*** | | | | | | | | | |
| 13C2-PFDA (S) | 111 | % | 70-130 | | 1 | 08/16/21 11:50 | 08/19/21 00:03 | | |
| 13C2-PFHxA (S) | 113 | % | 70-130 | | 1 | 08/16/21 11:50 | 08/19/21 00:03 | | |
| HFPO-DAS (S) | 112 | % | 70-130 | | 1 | 08/16/21 11:50 | 08/19/21 00:03 | | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-03185** **Lab ID: 70182755004** Collected: 08/03/21 11:20 Received: 08/03/21 16:35 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<br>Pace Analytical Services - Melville | | | | | | | | |
| Nitrate as N | **5.7** | mg/L | 0.25 | | 5 | | 08/04/21 01:14 | 14797-55-8 | |
| Nitrate-Nitrite (as N) | **5.7** | mg/L | 0.25 | | 5 | | 08/04/21 01:14 | 7727-37-9 | |
| **353.2 Nitrogen, NO2** | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville | | | | | | | | |
| Nitrite as N | **<0.050** | mg/L | 0.050 | | 1 | | 08/03/21 21:54 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
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## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-03185 FB** **Lab ID: 70182755005** Collected: 08/03/21 11:20 Received: 08/03/21 16:35 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<br>Pace Analytical Services - Ormond Beach | | | | | | | | |
| Perfluorobutanesulfonic acid | **<1.9** | ng/L | 1.9 | | 1 | 08/11/21 11:19 | 08/14/21 19:49 | 375-73-5 | |
| Perfluoroheptanoic acid | **<1.9** | ng/L | 1.9 | | 1 | 08/11/21 11:19 | 08/14/21 19:49 | 375-85-9 | |
| Perfluorohexanesulfonic acid | **<1.9** | ng/L | 1.9 | | 1 | 08/11/21 11:19 | 08/14/21 19:49 | 355-46-4 | |
| Perfluorononanoic acid | **<1.9** | ng/L | 1.9 | | 1 | 08/11/21 11:19 | 08/14/21 19:49 | 375-95-1 | |
| Perfluorooctanesulfonic acid | **<1.9** | ng/L | 1.9 | 10 | 1 | 08/11/21 11:19 | 08/14/21 19:49 | 1763-23-1 | |
| Perfluorooctanoic acid | **<1.9** | ng/L | 1.9 | 10 | 1 | 08/11/21 11:19 | 08/14/21 19:49 | 335-67-1 | |
| ***Surrogates*** | | | | | | | | | |
| 13C2-PFDA (S) | 113 | % | 70-130 | | 1 | 08/11/21 11:19 | 08/14/21 19:49 | | |
| 13C2-PFHxA (S) | 112 | % | 70-130 | | 1 | 08/11/21 11:19 | 08/14/21 19:49 | | |
| HFPO-DAS (S) | 118 | % | 70-130 | | 1 | 08/11/21 11:19 | 08/14/21 19:49 | | |

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: AS-03185** **Lab ID: 70182755006** Collected: 08/03/21 11:30 Received: 08/03/21 16:35 Matrix: Drinking Water

| Parameters | Results | Units | Report Limit | Reg. Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **524.2 MSV** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Melville | | | | | | | | |
| Benzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 71-43-2 | |
| Bromobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 108-86-1 | |
| Bromochloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 74-97-5 | |
| Bromodichloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 75-27-4 | |
| Bromoform | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 75-25-2 | |
| Bromomethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 74-83-9 | |
| n-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 104-51-8 | |
| sec-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 135-98-8 | |
| tert-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 98-06-6 | |
| Carbon tetrachloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 56-23-5 | |
| Chlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 108-90-7 | |
| Chlorodifluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 75-45-6 | N3 |
| Chloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 75-00-3 | |
| Chloroform | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 67-66-3 | |
| Chloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 74-87-3 | |
| 2-Chlorotoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 95-49-8 | |
| 4-Chlorotoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 106-43-4 | |
| Dibromochloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 124-48-1 | |
| Dibromomethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 75-71-8 | IL |
| 1,1-Dichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 10061-02-6 | |
| Ethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 98-82-8 | |
| p-Isopropyltoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 99-87-6 | |
| Methylene Chloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 75-09-2 | |
| Methyl-tert-butyl ether | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 1634-04-4 | |
| n-Propylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 103-65-1 | |
| Styrene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 79-34-5 | |
| Tetrachloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 127-18-4 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
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## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: AS-03185** **Lab ID: 70182755006** Collected: 08/03/21 11:30 Received: 08/03/21 16:35 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 | | 08/07/21 13:18 | 108-88-3 | |
| Total Trihalomethanes (Calc.) | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | | |
| 1,2,3-Trichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 79-00-5 | |
| Trichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 79-01-6 | |
| Trichlorofluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 76-13-1 | L2,N3 |
| 1,2,4-Trimethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 108-67-8 | |
| Vinyl chloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 75-01-4 | |
| m&p-Xylene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 179601-23-1 | |
| o-Xylene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 13:18 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 108 | % | 70-130 | | 1 | | 08/07/21 13:18 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 109 | % | 70-130 | | 1 | | 08/07/21 13:18 | 460-00-4 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| | Pace Analytical Services - Melville | | | | | | | | |
| Nitrate as N | **5.5** | mg/L | 0.25 | | 5 | | 08/04/21 01:15 | 14797-55-8 | |
| Nitrate-Nitrite (as N) | **5.5** | mg/L | 0.25 | | 5 | | 08/04/21 01:15 | 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 | | 08/03/21 21:55 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-04082** **Lab ID: 70182755007** Collected: 08/03/21 09:45 Received: 08/03/21 16:35 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<br>Pace Analytical Services - Melville | | | | | | | | |
| Total Coliforms | **Absent** | | | | 1 | 08/03/21 19:15 | 08/04/21 13:15 | | |
| E.coli | **Absent** | | | | 1 | 08/03/21 19:15 | 08/04/21 13:15 | | |
| **522 MSS 1,4 Dioxane (SIM)** | Analytical Method: EPA 522 Preparation Method: EPA 522<br>Pace Analytical Services - Melville | | | | | | | | |
| 1,4-Dioxane (p-Dioxane) | **<0.020** | ug/L | 0.020 | | 1 | 08/10/21 15:21 | 08/11/21 17:21 | 123-91-1 | |
| ***Surrogates*** | | | | | | | | | |
| 1,4-Dioxane-d8 (S) | 88 | % | 70-130 | | 1 | 08/10/21 15:21 | 08/11/21 17:21 | | |
| **524.2 MSV** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Melville | | | | | | | | |
| Benzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 71-43-2 | |
| Bromobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 108-86-1 | |
| Bromochloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 74-97-5 | |
| Bromodichloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 75-27-4 | |
| Bromoform | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 75-25-2 | |
| Bromomethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 74-83-9 | |
| n-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 104-51-8 | |
| sec-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 135-98-8 | |
| tert-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 98-06-6 | |
| Carbon tetrachloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 56-23-5 | |
| Chlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 108-90-7 | |
| Chlorodifluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 75-45-6 | N3 |
| Chloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 75-00-3 | |
| Chloroform | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 67-66-3 | |
| Chloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 74-87-3 | |
| 2-Chlorotoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 95-49-8 | |
| 4-Chlorotoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 106-43-4 | |
| Dibromochloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 124-48-1 | |
| Dibromomethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 75-71-8 | IL |
| 1,1-Dichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 10061-02-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-04082** **Lab ID: 70182755007** Collected: 08/03/21 09:45 Received: 08/03/21 16:35 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 | | 08/07/21 14:36 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 98-82-8 | |
| p-Isopropyltoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 99-87-6 | |
| Methylene Chloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 75-09-2 | |
| Methyl-tert-butyl ether | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 1634-04-4 | |
| n-Propylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 103-65-1 | |
| Styrene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 79-34-5 | |
| Tetrachloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 127-18-4 | |
| Toluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 108-88-3 | |
| Total Trihalomethanes (Calc.) | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | | |
| 1,2,3-Trichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 79-00-5 | |
| Trichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 79-01-6 | |
| Trichlorofluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 76-13-1 | L2,N3 |
| 1,2,4-Trimethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 108-67-8 | |
| Vinyl chloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 75-01-4 | |
| m&p-Xylene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 179601-23-1 | |
| o-Xylene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 14:36 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 108 | % | 70-130 | | 1 | | 08/07/21 14:36 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 112 | % | 70-130 | | 1 | | 08/07/21 14:36 | 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 | 08/16/21 11:50 | 08/18/21 03:44 | 375-73-5 | |
| Perfluoroheptanoic acid | **<1.9** | ng/L | 1.9 | | 1 | 08/16/21 11:50 | 08/18/21 03:44 | 375-85-9 | |
| Perfluorohexanesulfonic acid | **<1.9** | ng/L | 1.9 | | 1 | 08/16/21 11:50 | 08/18/21 03:44 | 355-46-4 | |
| Perfluorononanoic acid | **<1.9** | ng/L | 1.9 | | 1 | 08/16/21 11:50 | 08/18/21 03:44 | 375-95-1 | |
| Perfluorooctanesulfonic acid | **<1.9** | ng/L | 1.9 | 10 | 1 | 08/16/21 11:50 | 08/18/21 03:44 | 1763-23-1 | |
| Perfluorooctanoic acid | **<1.9** | ng/L | 1.9 | 10 | 1 | 08/16/21 11:50 | 08/18/21 03:44 | 335-67-1 | |
| ***Surrogates*** | | | | | | | | | |
| 13C2-PFDA (S) | 131 | % | 70-130 | | 1 | 08/16/21 11:50 | 08/18/21 03:44 | | S3 |
| 13C2-PFHxA (S) | 129 | % | 70-130 | | 1 | 08/16/21 11:50 | 08/18/21 03:44 | | |
| HFPO-DAS (S) | 135 | % | 70-130 | | 1 | 08/16/21 11:50 | 08/18/21 03:44 | | S3 |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-04082** **Lab ID: 70182755007** Collected: 08/03/21 09:45 Received: 08/03/21 16:35 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<br>Pace Analytical Services - Melville | | | | | | | | |
| Nitrate as N | **3.2** | mg/L | 0.25 | | 5 | | 08/04/21 01:16 | 14797-55-8 | |
| Nitrate-Nitrite (as N) | **3.3** | mg/L | 0.25 | | 5 | | 08/04/21 01:16 | 7727-37-9 | |
| **353.2 Nitrogen, NO2** | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville | | | | | | | | |
| Nitrite as N | **<0.050** | mg/L | 0.050 | | 1 | | 08/03/21 21:56 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-04082 FB** **Lab ID: 70182755008** Collected: 08/03/21 09:45 Received: 08/03/21 16:35 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<br>Pace Analytical Services - Ormond Beach | | | | | | | | |
| Perfluorobutanesulfonic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/11/21 11:19 | 08/14/21 19:04 | 375-73-5 | |
| Perfluoroheptanoic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/11/21 11:19 | 08/14/21 19:04 | 375-85-9 | |
| Perfluorohexanesulfonic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/11/21 11:19 | 08/14/21 19:04 | 355-46-4 | |
| Perfluorononanoic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/11/21 11:19 | 08/14/21 19:04 | 375-95-1 | |
| Perfluorooctanesulfonic acid | **<1.8** | ng/L | 1.8 | 10 | 1 | 08/11/21 11:19 | 08/14/21 19:04 | 1763-23-1 | |
| Perfluorooctanoic acid | **<1.8** | ng/L | 1.8 | 10 | 1 | 08/11/21 11:19 | 08/14/21 19:04 | 335-67-1 | |
| ***Surrogates*** | | | | | | | | | |
| 13C2-PFDA (S) | 116 | % | 70-130 | | 1 | 08/11/21 11:19 | 08/14/21 19:04 | | |
| 13C2-PFHxA (S) | 115 | % | 70-130 | | 1 | 08/11/21 11:19 | 08/14/21 19:04 | | |
| HFPO-DAS (S) | 117 | % | 70-130 | | 1 | 08/11/21 11:19 | 08/14/21 19:04 | | |

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-05596** **Lab ID: 70182755009** Collected: 08/03/21 10:10 Received: 08/03/21 16:35 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<br>Pace Analytical Services - Melville | | | | | | | | |
| Total Coliforms | **Absent** | | | | 1 | 08/03/21 19:15 | 08/04/21 13:15 | | |
| E.coli | **Absent** | | | | 1 | 08/03/21 19:15 | 08/04/21 13:15 | | |
| **522 MSS 1,4 Dioxane (SIM)** | Analytical Method: EPA 522 Preparation Method: EPA 522<br>Pace Analytical Services - Melville | | | | | | | | |
| 1,4-Dioxane (p-Dioxane) | **0.31** | ug/L | 0.020 | | 1 | 08/10/21 15:21 | 08/11/21 17:39 | 123-91-1 | |
| ***Surrogates*** | | | | | | | | | |
| 1,4-Dioxane-d8 (S) | 88 | % | 70-130 | | 1 | 08/10/21 15:21 | 08/11/21 17:39 | | |
| **524.2 MSV** | Analytical Method: EPA 524.2<br>Pace Analytical Services - Melville | | | | | | | | |
| Benzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 71-43-2 | |
| Bromobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 108-86-1 | |
| Bromochloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 74-97-5 | |
| Bromodichloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 75-27-4 | |
| Bromoform | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 75-25-2 | |
| Bromomethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 74-83-9 | |
| n-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 104-51-8 | |
| sec-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 135-98-8 | |
| tert-Butylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 98-06-6 | |
| Carbon tetrachloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 56-23-5 | |
| Chlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 108-90-7 | |
| Chlorodifluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 75-45-6 | N3 |
| Chloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 75-00-3 | |
| Chloroform | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 67-66-3 | |
| Chloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 74-87-3 | |
| 2-Chlorotoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 95-49-8 | |
| 4-Chlorotoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 106-43-4 | |
| Dibromochloromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 124-48-1 | |
| Dibromomethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 75-71-8 | IL |
| 1,1-Dichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 10061-02-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-05596** **Lab ID: 70182755009** Collected: 08/03/21 10:10 Received: 08/03/21 16:35 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 | | 08/07/21 15:02 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 98-82-8 | |
| p-Isopropyltoluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 99-87-6 | |
| Methylene Chloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 75-09-2 | |
| Methyl-tert-butyl ether | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 1634-04-4 | |
| n-Propylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 103-65-1 | |
| Styrene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 79-34-5 | |
| Tetrachloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 127-18-4 | |
| Toluene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 108-88-3 | |
| Total Trihalomethanes (Calc.) | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | | |
| 1,2,3-Trichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 79-00-5 | |
| Trichloroethene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 79-01-6 | |
| Trichlorofluoromethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 96-18-4 | |
| 1,1,2-Trichlorotrifluoroethane | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 76-13-1 | L2,N3 |
| 1,2,4-Trimethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 108-67-8 | |
| Vinyl chloride | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 75-01-4 | |
| m&p-Xylene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 179601-23-1 | |
| o-Xylene | **<0.50** | ug/L | 0.50 | | 1 | | 08/07/21 15:02 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 (S) | 108 | % | 70-130 | | 1 | | 08/07/21 15:02 | 2199-69-1 | |
| 4-Bromofluorobenzene (S) | 110 | % | 70-130 | | 1 | | 08/07/21 15:02 | 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 | **<1.8** | ng/L | 1.8 | | 1 | 08/16/21 11:50 | 08/18/21 23:32 | 375-73-5 | |
| Perfluoroheptanoic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/16/21 11:50 | 08/18/21 23:32 | 375-85-9 | |
| Perfluorohexanesulfonic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/16/21 11:50 | 08/18/21 23:32 | 355-46-4 | |
| Perfluorononanoic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/16/21 11:50 | 08/18/21 23:32 | 375-95-1 | |
| Perfluorooctanesulfonic acid | **3.9** | ng/L | 1.8 | 10 | 1 | 08/16/21 11:50 | 08/18/21 23:32 | 1763-23-1 | |
| Perfluorooctanoic acid | **2.8** | ng/L | 1.8 | 10 | 1 | 08/16/21 11:50 | 08/18/21 23:32 | 335-67-1 | |
| ***Surrogates*** | | | | | | | | | |
| 13C2-PFDA (S) | 116 | % | 70-130 | | 1 | 08/16/21 11:50 | 08/18/21 23:32 | | |
| 13C2-PFHxA (S) | 113 | % | 70-130 | | 1 | 08/16/21 11:50 | 08/18/21 23:32 | | |
| HFPO-DAS (S) | 110 | % | 70-130 | | 1 | 08/16/21 11:50 | 08/18/21 23:32 | | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-05596** **Lab ID: 70182755009** Collected: 08/03/21 10:10 Received: 08/03/21 16:35 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<br>Pace Analytical Services - Melville | | | | | | | | |
| Nitrate as N | **5.3** | mg/L | 0.25 | | 5 | | 08/04/21 01:20 | 14797-55-8 | |
| Nitrate-Nitrite (as N) | **5.3** | mg/L | 0.25 | | 5 | | 08/04/21 01:20 | 7727-37-9 | |
| **353.2 Nitrogen, NO2** | Analytical Method: EPA 353.2<br>Pace Analytical Services - Melville | | | | | | | | |
| Nitrite as N | **<0.050** | mg/L | 0.050 | | 1 | | 08/03/21 21:57 | 14797-65-0 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

**Sample: N-05596 FB** **Lab ID: 70182755010** Collected: 08/03/21 10:10 Received: 08/03/21 16:35 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<br>Pace Analytical Services - Ormond Beach | | | | | | | | |
| Perfluorobutanesulfonic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/11/21 11:19 | 08/14/21 19:19 | 375-73-5 | |
| Perfluoroheptanoic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/11/21 11:19 | 08/14/21 19:19 | 375-85-9 | |
| Perfluorohexanesulfonic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/11/21 11:19 | 08/14/21 19:19 | 355-46-4 | |
| Perfluorononanoic acid | **<1.8** | ng/L | 1.8 | | 1 | 08/11/21 11:19 | 08/14/21 19:19 | 375-95-1 | |
| Perfluorooctanesulfonic acid | **<1.8** | ng/L | 1.8 | 10 | 1 | 08/11/21 11:19 | 08/14/21 19:19 | 1763-23-1 | |
| Perfluorooctanoic acid | **<1.8** | ng/L | 1.8 | 10 | 1 | 08/11/21 11:19 | 08/14/21 19:19 | 335-67-1 | |
| ***Surrogates*** | | | | | | | | | |
| 13C2-PFDA (S) | 117 | % | 70-130 | | 1 | 08/11/21 11:19 | 08/14/21 19:19 | | |
| 13C2-PFHxA (S) | 116 | % | 70-130 | | 1 | 08/11/21 11:19 | 08/14/21 19:19 | | |
| HFPO-DAS (S) | 114 | % | 70-130 | | 1 | 08/11/21 11:19 | 08/14/21 19:19 | | |

**Pace Analytical Services, LLC**
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## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

QC Batch: 220481
QC Batch Method: SM22 9223B Colilert
Analysis Method: SM22 9223B Colilert
Analysis Description: TotColDW MBIO Total Coliform
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70182755001, 70182755007, 70182755009

METHOD BLANK: 1111471 Matrix: Drinking Water
Associated Lab Samples: 70182755001, 70182755007, 70182755009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| E.coli | | Absent | | 08/04/21 13:15 | |
| Total Coliforms | | Absent | | 08/04/21 13:15 | |

SAMPLE DUPLICATE: 1111472

| Parameter | Units | 70182649004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| E.coli | | Absent | Absent | | | |
| Total Coliforms | | Absent | Absent | | | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

QC Batch: 220492
QC Batch Method: SM22 9223B Colilert
Analysis Method: SM22 9223B Colilert
Analysis Description: TotColDW MBIO Total Coliform
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70182755004

METHOD BLANK: 1111517
Matrix: Drinking Water
Associated Lab Samples: 70182755004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| E.coli | | Absent | | 08/04/21 13:15 | |
| Total Coliforms | | Absent | | 08/04/21 13:15 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

QC Batch: 220949
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70182755001, 70182755003, 70182755004, 70182755006, 70182755007, 70182755009

METHOD BLANK: 1114069 Matrix: Water
Associated Lab Samples: 70182755001, 70182755003, 70182755004, 70182755006, 70182755007, 70182755009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,1,1-Trichloroethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,1,2-Trichloroethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | N3 |
| 1,1-Dichloroethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,1-Dichloroethene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,1-Dichloropropene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,2,3-Trichlorobenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,2,3-Trichloropropane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,2-Dichlorobenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,2-Dichloroethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,2-Dichloropropane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,3-Dichlorobenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,3-Dichloropropane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,4-Dichlorobenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 2,2-Dichloropropane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 2-Chlorotoluene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 4-Chlorotoluene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Benzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Bromobenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Bromochloromethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Bromodichloromethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Bromoform | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Bromomethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Carbon tetrachloride | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Chlorobenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Chlorodifluoromethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | N3 |
| Chloroethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Chloroform | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Chloromethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| cis-1,2-Dichloroethene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| cis-1,3-Dichloropropene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Dibromochloromethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Dibromomethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | IL |
| Ethylbenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

METHOD BLANK: 1114069 Matrix: Water
Associated Lab Samples: 70182755001, 70182755003, 70182755004, 70182755006, 70182755007, 70182755009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Isopropylbenzene (Cumene) | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| m&p-Xylene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Methyl-tert-butyl ether | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Methylene Chloride | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| n-Butylbenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| n-Propylbenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| o-Xylene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| p-Isopropyltoluene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| sec-Butylbenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Styrene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| tert-Butylbenzene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Tetrachloroethene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Toluene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Total Trihalomethanes (Calc.) | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| trans-1,2-Dichloroethene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| trans-1,3-Dichloropropene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Trichloroethene | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Trichlorofluoromethane | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| Vinyl chloride | ug/L | <0.50 | 0.50 | 08/07/21 05:03 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 112 | 70-130 | 08/07/21 05:03 | |
| 4-Bromofluorobenzene (S) | % | 108 | 70-130 | 08/07/21 05:03 | |

LABORATORY CONTROL SAMPLE: 1114070

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 10 | 8.3 | 83 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 10 | 9.2 | 92 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 10 | 10.2 | 102 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 10 | 9.5 | 95 | 70-130 | |
| 1,1,2-Trichlorotrifluoroethane | ug/L | 10 | 6.9 | 69 | 70-130 | IH,L2,N3 |
| 1,1-Dichloroethane | ug/L | 10 | 9.4 | 94 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 10 | 8.9 | 89 | 70-130 | |
| 1,1-Dichloropropene | ug/L | 10 | 9.7 | 97 | 70-130 | |
| 1,2,3-Trichlorobenzene | ug/L | 10 | 10.5 | 105 | 70-130 | |
| 1,2,3-Trichloropropane | ug/L | 10 | 10.7 | 107 | 70-130 | |
| 1,2,4-Trichlorobenzene | ug/L | 10 | 10.4 | 104 | 70-130 | |
| 1,2,4-Trimethylbenzene | ug/L | 10 | 9.7 | 97 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 10 | 9.9 | 99 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 10 | 10.7 | 107 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 10 | 9.7 | 97 | 70-130 | |
| 1,3,5-Trimethylbenzene | ug/L | 10 | 9.5 | 95 | 70-130 | |
| 1,3-Dichlorobenzene | ug/L | 10 | 9.6 | 96 | 70-130 | |
| 1,3-Dichloropropane | ug/L | 10 | 10.2 | 102 | 70-130 | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

LABORATORY CONTROL SAMPLE: 1114070

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ug/L | 10 | 9.2 | 92 | 70-130 | |
| 2,2-Dichloropropane | ug/L | 10 | 9.5 | 95 | 70-130 | |
| 2-Chlorotoluene | ug/L | 10 | 9.5 | 95 | 70-130 | |
| 4-Chlorotoluene | ug/L | 10 | 9.8 | 98 | 70-130 | |
| Benzene | ug/L | 10 | 9.4 | 94 | 70-130 | |
| Bromobenzene | ug/L | 10 | 9.5 | 95 | 70-130 | |
| Bromochloromethane | ug/L | 10 | 9.0 | 90 | 70-130 | |
| Bromodichloromethane | ug/L | 10 | 9.2 | 92 | 70-130 | |
| Bromoform | ug/L | 10 | 8.7 | 87 | 70-130 | |
| Bromomethane | ug/L | 10 | 10.1 | 101 | 70-130 | |
| Carbon tetrachloride | ug/L | 10 | 8.6 | 86 | 70-130 | |
| Chlorobenzene | ug/L | 10 | 9.4 | 94 | 70-130 | |
| Chlorodifluoromethane | ug/L | 10 | 7.2 | 72 | 70-130 | N3 |
| Chloroethane | ug/L | 10 | 11.0 | 110 | 70-130 | |
| Chloroform | ug/L | 10 | 9.7 | 97 | 70-130 | |
| Chloromethane | ug/L | 10 | 8.9 | 89 | 70-130 | |
| cis-1,2-Dichloroethene | ug/L | 10 | 8.6 | 86 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 10 | 9.8 | 98 | 70-130 | |
| Dibromochloromethane | ug/L | 10 | 8.9 | 89 | 70-130 | |
| Dibromomethane | ug/L | 10 | 9.6 | 96 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 10 | 8.0 | 80 | 70-130 | IL |
| Ethylbenzene | ug/L | 10 | 9.3 | 93 | 70-130 | |
| Hexachloro-1,3-butadiene | ug/L | 10 | 11.0 | 110 | 70-130 | |
| Isopropylbenzene (Cumene) | ug/L | 10 | 9.5 | 95 | 70-130 | |
| m&p-Xylene | ug/L | 20 | 18.3 | 91 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 10 | 11.6 | 116 | 70-130 | IH |
| Methylene Chloride | ug/L | 10 | 8.7 | 87 | 70-130 | |
| n-Butylbenzene | ug/L | 10 | 9.9 | 99 | 70-130 | |
| n-Propylbenzene | ug/L | 10 | 9.8 | 98 | 70-130 | |
| o-Xylene | ug/L | 10 | 9.0 | 90 | 70-130 | |
| p-Isopropyltoluene | ug/L | 10 | 9.6 | 96 | 70-130 | |
| sec-Butylbenzene | ug/L | 10 | 9.4 | 94 | 70-130 | |
| Styrene | ug/L | 10 | 9.6 | 96 | 70-130 | |
| tert-Butylbenzene | ug/L | 10 | 9.3 | 93 | 70-130 | |
| Tetrachloroethene | ug/L | 10 | 8.7 | 87 | 70-130 | |
| Toluene | ug/L | 10 | 9.3 | 93 | 70-130 | |
| Total Trihalomethanes (Calc.) | ug/L | | 36.6 | | | |
| trans-1,2-Dichloroethene | ug/L | 10 | 9.1 | 91 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | 10 | 10.3 | 103 | 70-130 | |
| Trichloroethene | ug/L | 10 | 8.7 | 87 | 70-130 | |
| Trichlorofluoromethane | ug/L | 10 | 10.3 | 103 | 70-130 | |
| Vinyl chloride | ug/L | 10 | 9.7 | 97 | 70-130 | |
| 1,2-Dichlorobenzene-d4 (S) | % | | | 116 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 113 | 70-130 | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

SAMPLE DUPLICATE: 1114258

| Parameter | Units | 70182526005 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 | <0.50 | <0.50 | | 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 | <0.50 | <0.50 | | 20 | |
| 1,1-Dichloroethene | ug/L | <0.50 | <0.50 | | 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 | <0.50 | <0.50 | | 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 | 1.7 | 1.9 | 13 | 20 | N3 |
| Chloroethane | ug/L | <0.50 | <0.50 | | 20 | |
| Chloroform | ug/L | <0.50 | <0.50 | | 20 | |
| Chloromethane | ug/L | <0.50 | <0.50 | | 20 | |
| cis-1,2-Dichloroethene | ug/L | <0.50 | <0.50 | | 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 | IL |
| 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

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

SAMPLE DUPLICATE: 1114258

| Parameter | Units | 70182526005 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 | 0.58 | 0.62 | 7 | 20 | |
| Toluene | ug/L | <0.50 | <0.50 | | 20 | |
| Total Trihalomethanes (Calc.) | ug/L | <0.50 | <0.50 | | 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 | 12.6 | 12.7 | 1 | 20 | |
| Trichlorofluoromethane | ug/L | <0.50 | <0.50 | | 20 | |
| Vinyl chloride | ug/L | <0.50 | <0.50 | | 20 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 112 | 106 | | 20 | |
| 4-Bromofluorobenzene (S) | % | 114 | 109 | | 20 | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

QC Batch: 221228
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70182755001, 70182755004, 70182755007, 70182755009

METHOD BLANK: 1115264 Matrix: Drinking Water
Associated Lab Samples: 70182755001, 70182755004, 70182755007, 70182755009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,4-Dioxane (p-Dioxane) | ug/L | <0.020 | 0.020 | 08/11/21 11:52 | |
| 1,4-Dioxane-d8 (S) | % | 79 | 70-130 | 08/11/21 11:52 | |

LABORATORY CONTROL SAMPLE: 1115265

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,4-Dioxane (p-Dioxane) | ug/L | 2 | 1.8 | 91 | 70-130 | |
| 1,4-Dioxane-d8 (S) | % | | | 94 | 70-130 | |

MATRIX SPIKE SAMPLE: 1115266

| Parameter | Units | 70182636004 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane (p-Dioxane) | ug/L | <0.020 | 2 | 1.7 | 87 | 70-130 | |
| 1,4-Dioxane-d8 (S) | % | | | | 86 | 70-130 | |

SAMPLE DUPLICATE: 1115267

| Parameter | Units | 70182638001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| 1,4-Dioxane (p-Dioxane) | ug/L | 5.1 | 5.4 | 6 | 20 | E |
| 1,4-Dioxane-d8 (S) | % | 85 | 87 | | 20 | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

QC Batch: 752919
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70182755002, 70182755005, 70182755008, 70182755010

METHOD BLANK: 4111831 Matrix: Water
Associated Lab Samples: 70182755002, 70182755005, 70182755008, 70182755010

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Perfluorobutanesulfonic acid | ng/L | ND | 2.0 | 08/14/21 15:50 | |
| Perfluoroheptanoic acid | ng/L | ND | 2.0 | 08/14/21 15:50 | |
| Perfluorohexanesulfonic acid | ng/L | ND | 2.0 | 08/14/21 15:50 | |
| Perfluorononanoic acid | ng/L | ND | 2.0 | 08/14/21 15:50 | |
| Perfluorooctanesulfonic acid | ng/L | ND | 2.0 | 08/14/21 15:50 | |
| Perfluorooctanoic acid | ng/L | ND | 2.0 | 08/14/21 15:50 | |
| 13C2-PFDA (S) | % | 123 | 70-130 | 08/14/21 15:50 | |
| 13C2-PFHxA (S) | % | 124 | 70-130 | 08/14/21 15:50 | |
| HFPO-DAS (S) | % | 125 | 70-130 | 08/14/21 15:50 | |
| NEtFOSAA-d5 (S) | % | 115 | 70-130 | 08/14/21 15:50 | |

LABORATORY CONTROL SAMPLE: 4111832

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Perfluorobutanesulfonic acid | ng/L | 7.1 | 7.2 | 101 | 70-130 | |
| Perfluoroheptanoic acid | ng/L | 8 | 8.3 | 104 | 70-130 | |
| Perfluorohexanesulfonic acid | ng/L | 7.3 | 7.4 | 101 | 70-130 | |
| Perfluorononanoic acid | ng/L | 8 | 8.5 | 107 | 70-130 | |
| Perfluorooctanesulfonic acid | ng/L | 7.4 | 7.9 | 106 | 70-130 | |
| Perfluorooctanoic acid | ng/L | 8 | 8.1 | 101 | 70-130 | |
| 13C2-PFDA (S) | % | | | 119 | 70-130 | |
| 13C2-PFHxA (S) | % | | | 121 | 70-130 | |
| HFPO-DAS (S) | % | | | 120 | 70-130 | |
| NEtFOSAA-d5 (S) | % | | | 113 | 70-130 | |

LABORATORY CONTROL SAMPLE: 4111833

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Perfluorobutanesulfonic acid | ng/L | 1.8 | 1.9J | 106 | 50-150 | |
| Perfluoroheptanoic acid | ng/L | 2 | 2.0 | 102 | 50-150 | |
| Perfluorohexanesulfonic acid | ng/L | 1.8 | 1.9J | 106 | 50-150 | |
| Perfluorononanoic acid | ng/L | 2 | 2.1 | 106 | 50-150 | |
| Perfluorooctanesulfonic acid | ng/L | 1.9 | ND | 107 | 50-150 | |
| Perfluorooctanoic acid | ng/L | 2 | 2.1 | 105 | 50-150 | |
| 13C2-PFDA (S) | % | | | 115 | 70-130 | |
| 13C2-PFHxA (S) | % | | | 116 | 70-130 | |
| HFPO-DAS (S) | % | | | 115 | 70-130 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

LABORATORY CONTROL SAMPLE: 4111833

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| NEtFOSAA-d5 (S) | % | | | 108 | 70-130 | |

MATRIX SPIKE SAMPLE: 4111834

| Parameter | Units | 5274393001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Perfluorobutanesulfonic acid | ng/L | ND | 1.7 | 5.8 | 101 | 70-130 | |
| Perfluoroheptanoic acid | ng/L | 2.0 | 1.9 | 3.8 | 97 | 70-130 | |
| Perfluorohexanesulfonic acid | ng/L | 26.6 | 1.7 | 27.3 | 44 | 70-130 | M1 |
| Perfluorononanoic acid | ng/L | ND | 1.9 | 2.2 | 96 | 70-130 | |
| Perfluorooctanesulfonic acid | ng/L | 13.3 | 1.7 | 14.5 | 70 | 70-130 | |
| Perfluorooctanoic acid | ng/L | 7.8 | 1.9 | 9.4 | 89 | 70-130 | |
| 13C2-PFDA (S) | % | | | | 110 | 70-130 | |
| 13C2-PFHxA (S) | % | | | | 109 | 70-130 | |
| HFPO-DAS (S) | % | | | | 105 | 70-130 | |
| NEtFOSAA-d5 (S) | % | | | | 101 | 70-130 | |

SAMPLE DUPLICATE: 4111835

| Parameter | Units | 5274394005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Perfluorobutanesulfonic acid | ng/L | 5.6 | 5.4 | 3 | 30 | |
| Perfluoroheptanoic acid | ng/L | ND | <1.8 | | 30 | |
| Perfluorohexanesulfonic acid | ng/L | 18.4 | 18.4 | 0 | 30 | |
| Perfluorononanoic acid | ng/L | ND | <1.8 | | 30 | |
| Perfluorooctanesulfonic acid | ng/L | 9.4 | 8.9 | 6 | 30 | |
| Perfluorooctanoic acid | ng/L | ND | 4.5 | 0 | 30 | |
| 13C2-PFDA (S) | % | 112 | 110 | | | |
| 13C2-PFHxA (S) | % | 113 | 112 | | | |
| HFPO-DAS (S) | % | 107 | 111 | | | |
| NEtFOSAA-d5 (S) | % | 101 | 98 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

QC Batch: 754225
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70182755001, 70182755004, 70182755007, 70182755009

METHOD BLANK: 4120441 Matrix: Water
Associated Lab Samples: 70182755001, 70182755004, 70182755007, 70182755009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Perfluorobutanesulfonic acid | ng/L | ND | 2.0 | 08/18/21 01:11 | |
| Perfluoroheptanoic acid | ng/L | ND | 2.0 | 08/18/21 01:11 | |
| Perfluorohexanesulfonic acid | ng/L | ND | 2.0 | 08/18/21 01:11 | |
| Perfluorononanoic acid | ng/L | ND | 2.0 | 08/18/21 01:11 | |
| Perfluorooctanesulfonic acid | ng/L | ND | 2.0 | 08/18/21 01:11 | |
| Perfluorooctanoic acid | ng/L | ND | 2.0 | 08/18/21 01:11 | |
| 13C2-PFDA (S) | % | 106 | 70-130 | 08/18/21 01:11 | |
| 13C2-PFHxA (S) | % | 109 | 70-130 | 08/18/21 01:11 | |
| HFPO-DAS (S) | % | 102 | 70-130 | 08/18/21 01:11 | |
| NEtFOSAA-d5 (S) | % | 122 | 70-130 | 08/18/21 01:11 | |

LABORATORY CONTROL SAMPLE: 4120442

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Perfluorobutanesulfonic acid | ng/L | 142 | 142 | 100 | 70-130 | |
| Perfluoroheptanoic acid | ng/L | 160 | 141 | 88 | 70-130 | |
| Perfluorohexanesulfonic acid | ng/L | 146 | 137 | 94 | 70-130 | |
| Perfluorononanoic acid | ng/L | 160 | 165 | 103 | 70-130 | |
| Perfluorooctanesulfonic acid | ng/L | 148 | 147 | 99 | 70-130 | |
| Perfluorooctanoic acid | ng/L | 160 | 160 | 100 | 70-130 | |
| 13C2-PFDA (S) | % | | | 102 | 70-130 | |
| 13C2-PFHxA (S) | % | | | 111 | 70-130 | |
| HFPO-DAS (S) | % | | | 107 | 70-130 | |
| NEtFOSAA-d5 (S) | % | | | 95 | 70-130 | |

LABORATORY CONTROL SAMPLE: 4120443

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Perfluorobutanesulfonic acid | ng/L | 1.8 | 1.6J | 92 | 50-150 | |
| Perfluoroheptanoic acid | ng/L | 2 | 1.9J | 95 | 50-150 | |
| Perfluorohexanesulfonic acid | ng/L | 1.8 | 1.7J | 93 | 50-150 | |
| Perfluorononanoic acid | ng/L | 2 | ND | 93 | 50-150 | |
| Perfluorooctanesulfonic acid | ng/L | 1.9 | 1.8J | 99 | 50-150 | |
| Perfluorooctanoic acid | ng/L | 2 | 1.8J | 90 | 50-150 | |
| 13C2-PFDA (S) | % | | | 107 | 70-130 | |
| 13C2-PFHxA (S) | % | | | 108 | 70-130 | |
| HFPO-DAS (S) | % | | | 108 | 70-130 | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

LABORATORY CONTROL SAMPLE: 4120443

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| NEtFOSAA-d5 (S) | % | | | 101 | 70-130 | |

MATRIX SPIKE SAMPLE: 4120444

| Parameter | Units | 35655177001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Perfluorobutanesulfonic acid | ng/L | 0.0045 ug/L | 146 | 135 | 89 | 70-130 | |
| Perfluoroheptanoic acid | ng/L | 0.0019J ug/L | 165 | 174 | 104 | 70-130 | |
| Perfluorohexanesulfonic acid | ng/L | 0.0045 ug/L | 151 | 164 | 106 | 70-130 | |
| Perfluorononanoic acid | ng/L | 0.0021U ug/L | 165 | 162 | 98 | 70-130 | |
| Perfluorooctanesulfonic acid | ng/L | 0.049 ug/L | 153 | 208 | 104 | 70-130 | |
| Perfluorooctanoic acid | ng/L | 0.0052 ug/L | 165 | 171 | 100 | 70-130 | |
| 13C2-PFDA (S) | % | | | | 109 | 70-130 | |
| 13C2-PFHxA (S) | % | | | | 97 | 70-130 | |
| HFPO-DAS (S) | % | | | | 100 | 70-130 | |
| NEtFOSAA-d5 (S) | % | | | | 105 | 70-130 | |

SAMPLE DUPLICATE: 4120445

| Parameter | Units | 35655177002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Perfluorobutanesulfonic acid | ng/L | 0.0090 ug/L | 9.3 | 2 | 30 | |
| Perfluoroheptanoic acid | ng/L | 0.0044 ug/L | 4.9 | 11 | 30 | |
| Perfluorohexanesulfonic acid | ng/L | 0.011 ug/L | 11.2 | 5 | 30 | |
| Perfluorononanoic acid | ng/L | 0.0020U ug/L | 2.0 | | 30 | |
| Perfluorooctanesulfonic acid | ng/L | 0.074 ug/L | 75.9 | 3 | 30 | |
| Perfluorooctanoic acid | ng/L | 0.010 ug/L | 10.5 | 3 | 30 | |
| 13C2-PFDA (S) | % | 111 | 112 | | | |
| 13C2-PFHxA (S) | % | 100 | 92 | | | |
| HFPO-DAS (S) | % | 98 | 94 | | | |
| NEtFOSAA-d5 (S) | % | 105 | 104 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

QC Batch: 220366
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70182755001, 70182755003, 70182755004, 70182755006, 70182755007, 70182755009

METHOD BLANK: 1111180 Matrix: Water
Associated Lab Samples: 70182755001, 70182755003, 70182755004, 70182755006, 70182755007, 70182755009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrite as N | mg/L | ND | 0.050 | 08/03/21 21:27 | |

LABORATORY CONTROL SAMPLE: 1111181

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrite as N | mg/L | 1 | 0.98 | 98 | 90-110 | |

MATRIX SPIKE SAMPLE: 1111182

| Parameter | Units | 70182770003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrite as N | mg/L | <0.050 | 0.5 | 0.50 | 98 | 90-110 | |

MATRIX SPIKE SAMPLE: 1111184

| Parameter | Units | 70182755001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrite as N | mg/L | <0.050 | 0.5 | 0.50 | 98 | 90-110 | |

SAMPLE DUPLICATE: 1111183

| Parameter | Units | 70182770003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrite as N | mg/L | <0.050 | <0.050 | | 20 | |

SAMPLE DUPLICATE: 1111185

| Parameter | Units | 70182755001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrite as N | mg/L | <0.050 | <0.050 | | 20 | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

QC Batch: 220371 | 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: 70182755001, 70182755003, 70182755004, 70182755006, 70182755007

METHOD BLANK: 1111199 Matrix: Water
Associated Lab Samples: 70182755001, 70182755003, 70182755004, 70182755006, 70182755007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrate-Nitrite (as N) | mg/L | ND | 0.050 | 08/04/21 00:42 | |

LABORATORY CONTROL SAMPLE: 1111200

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrate-Nitrite (as N) | mg/L | 1 | 1.0 | 100 | 90-110 | |

MATRIX SPIKE SAMPLE: 1111201

| Parameter | Units | 70182707001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite (as N) | mg/L | 0.43 | 0.5 | 1.0 | 120 | 90-110 | M1 |

MATRIX SPIKE SAMPLE: 1111203

| Parameter | Units | 70182697001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite (as N) | mg/L | 4.3 | 2.5 | 7.0 | 108 | 90-110 | |

SAMPLE DUPLICATE: 1111202

| Parameter | Units | 70182707001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrate-Nitrite (as N) | mg/L | 0.43 | 0.43 | 1 | 20 | |

SAMPLE DUPLICATE: 1111204

| Parameter | Units | 70182697001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrate-Nitrite (as N) | mg/L | 4.3 | 4.3 | 0 | 20 | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

QC Batch: 220372
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70182755009

METHOD BLANK: 1111205 Matrix: Water
Associated Lab Samples: 70182755009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrate-Nitrite (as N) | mg/L | ND | 0.050 | 08/04/21 01:18 | |

LABORATORY CONTROL SAMPLE: 1111206

| 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: 1111207

| Parameter | Units | 70182702001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite (as N) | mg/L | <0.050 | 0.5 | 0.50 | 100 | 90-110 | |

MATRIX SPIKE SAMPLE: 1111209

| Parameter | Units | 70182636001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite (as N) | mg/L | 4.1 | 2.5 | 6.6 | 100 | 90-110 | |

SAMPLE DUPLICATE: 1111208

| Parameter | Units | 70182702001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrate-Nitrite (as N) | mg/L | <0.050 | <0.050 | | 20 | |

SAMPLE DUPLICATE: 1111210

| Parameter | Units | 70182636001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrate-Nitrite (as N) | mg/L | 4.1 | 4.0 | 2 | 20 | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# QUALIFIERS

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

## 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

| | |
|---|---|
| E | Analyte concentration exceeded the calibration range. The reported result is estimated. |
| IH | This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value. |
| IL | This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value. |
| L2 | Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low. |
| 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. |
| S3 | Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. |

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BAC/NO3/POC/1,4 DIOX/PFAS 8/3
Pace Project No.: 70182755

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **70182755001** | **N-00097** | SM22 9223B Colilert | 220481 | SM22 9223B Colilert | 220515 |
| **70182755004** | **N-03185** | SM22 9223B Colilert | 220492 | SM22 9223B Colilert | 220514 |
| **70182755007** | **N-04082** | SM22 9223B Colilert | 220481 | SM22 9223B Colilert | 220515 |
| **70182755009** | **N-05596** | SM22 9223B Colilert | 220481 | SM22 9223B Colilert | 220515 |
| **70182755001** | **N-00097** | EPA 522 | 221228 | EPA 522 | 221428 |
| **70182755004** | **N-03185** | EPA 522 | 221228 | EPA 522 | 221428 |
| **70182755007** | **N-04082** | EPA 522 | 221228 | EPA 522 | 221428 |
| **70182755009** | **N-05596** | EPA 522 | 221228 | EPA 522 | 221428 |
| **70182755001** | **N-00097** | EPA 524.2 | 220949 | | |
| **70182755003** | **AS-00097** | EPA 524.2 | 220949 | | |
| **70182755004** | **N-03185** | EPA 524.2 | 220949 | | |
| **70182755006** | **AS-03185** | EPA 524.2 | 220949 | | |
| **70182755007** | **N-04082** | EPA 524.2 | 220949 | | |
| **70182755009** | **N-05596** | EPA 524.2 | 220949 | | |
| **70182755001** | **N-00097** | EPA 537.1 | 754225 | EPA 537.1 | 754701 |
| **70182755002** | **N-00097 FB** | EPA 537.1 | 752919 | EPA 537.1 | 753329 |
| **70182755004** | **N-03185** | EPA 537.1 | 754225 | EPA 537.1 | 754701 |
| **70182755005** | **N-03185 FB** | EPA 537.1 | 752919 | EPA 537.1 | 753329 |
| **70182755007** | **N-04082** | EPA 537.1 | 754225 | EPA 537.1 | 754701 |
| **70182755008** | **N-04082 FB** | EPA 537.1 | 752919 | EPA 537.1 | 753329 |
| **70182755009** | **N-05596** | EPA 537.1 | 754225 | EPA 537.1 | 754701 |
| **70182755010** | **N-05596 FB** | EPA 537.1 | 752919 | EPA 537.1 | 753329 |
| **70182755001** | **N-00097** | EPA 353.2 | 220371 | | |
| **70182755003** | **AS-00097** | EPA 353.2 | 220371 | | |
| **70182755004** | **N-03185** | EPA 353.2 | 220371 | | |
| **70182755006** | **AS-03185** | EPA 353.2 | 220371 | | |
| **70182755007** | **N-04082** | EPA 353.2 | 220371 | | |
| **70182755009** | **N-05596** | EPA 353.2 | 220372 | | |
| **70182755001** | **N-00097** | EPA 353.2 | 220366 | | |
| **70182755003** | **AS-00097** | EPA 353.2 | 220366 | | |
| **70182755004** | **N-03185** | EPA 353.2 | 220366 | | |
| **70182755006** | **AS-03185** | EPA 353.2 | 220366 | | |
| **70182755007** | **N-04082** | EPA 353.2 | 220366 | | |
| **70182755009** | **N-05596** | EPA 353.2 | 220366 | | |

WO# : 70182755

70182755

(631) 694-3040 Fax: (631) 420-8436

# Sample Request Form
## PUBLIC WATER SUPPLIER

Date: 8/3/21

Collected By: DP JM

Accepted By: JM 8/2/21

Cooler Temp: °C 1450

Return to Lab 8/3/21 1635

☐ WELL OFF LINE

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

**Client Info:**

Name or Code: Village of Mineola

Address: 42 E 2nd Street

Phone #: Mineola NY

Attn:

Proj. # or (Name): 516 7460750

Bill To:

Copies To:

| Sample Types | Purpose | Origin | Treatment Types |
|---|---|---|---|
| PW - Potable Water | (RG) - Routine | D - Distribution | AST - Air Stripper |
| (GW) - Groundwater | RE - Resample | (RW) - Raw Well | GAC - Granular Activated Charcoal |
| SW - Surface Water | S - Special | (TW) - Treated Well | N - Nitrate Removal Plant |
| WW - Waste Water | | T - Tank | FE - Iron Removal Plant |
| AQ - Aqueous | | MW - Monitoring Well | O - Other |
| S - Soil | | I - Influent | |
| | | E - Effluent | |

**Sample Info:**

| Date/Time Collected: | Sample Type | Location | Origin | Treatment Type | Purpose | Field Readings $Cl_2$ | Field Readings pH/Temp | Analysis | Lab No. |
|---|---|---|---|---|---|---|---|---|---|
| 1030 | GW | Well 2 | RW | | RG | | 6.4/13.8 | Bac Nit Pb C | N-000997 001 |
| 1030 | GW | Well 2 | RW | | RG | | 6.4/13.8 | 1/4 Orbane / PO4 5.3 | N-000997 |
| | | Well 2 | | | | | | Blank Sample | 002 |
| 1040 | PW | Well 2 | TW | | RG | .7 | 7.8/14 | Bac Nit Pb C | ast000997 003 |

Remarks:

Pace Analytical®
www.pacelabs.com

575 Broad Hollow Rd., Melville, NY 11747
(631) 694-3040 Fax: (631) 420-8436

# Sample Request Form
## PUBLIC WATER SUPPLIER

Date: 8/3/21

Collected By: NM DO

Accepted By: 8/3/21

Cooler Temp: °C 1450

Return to Lab
8/3/21 1635

☐ WELL OFF LINE To WASTE

☐ WELL RUN TO SYSTEM

☑ YES ☐ NO VOC'S PRESERVED WITH HCl

**Client Info:**

Name or Code: Village of Mineola

Address: 42 E 2nd St 1st floor

Phone #: Mineola NY

Attn:

Proj. # or (Name): 516 746 0751

Bill To:

Copies To:

| Sample Types | Purpose | Origin | Treatment Types |
|---|---|---|---|
| (PW) - Potable Water | (RO) - Routine | D - Distribution | AST - Air Stripper |
| GW - Groundwater | RE - Resample | (RW) - Raw Well | GAC - Granular Activated Charcoal |
| SW - Surface Water | S - Special | (TW) - Treated Well | N - Nitrate Removal Plant |
| WW - Waste Water | | T - Tank | FE - Iron Removal Plant |
| AQ - Aqueous | | MW - Monitoring Well | O - Other |
| S - Soil | | I - Influent | |
| | | E - Effluent | |

**Sample Info:**

| Date/Time Collected: | Sample Type | Location | Origin | Treatment Type | Purpose | Field Readings $Cl_2$ | Field Readings pH/Temp | Analysis | Lab No. |
|---|---|---|---|---|---|---|---|---|---|
| 1120 | GW | Well 4 | RW | | RO | | 6.5/14° | Bac Nit Poc | N-03185004 |
| 1120 | GW | Well 4 | RW | | RO | | 6.5/14° | 1,4 Dioxane PFOS 537 | N-03185 |
| | | Well 4 | | | | | | Blank Sample | 005 |
| 1130 | PW | Well 4 | TW | | RO | | 2.0/16° | Bac Poc Nit | AST 03185006 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Remarks:

Pace Analytical®
www.pacelabs.com

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(631) 694-3040 Fax: (631) 420-8436

# Sample Request Form
## PUBLIC WATER SUPPLIER

Return to Lab
8/3/21 1635

Date: 8/3/21

Collected By: NM

Accepted By: [signature] 8/2/21 1450

Cooler Temp: ____ °C

☐ WELL OFF LINE ____

☐ WELL RUN TO SYSTEM ____

☑ YES ☐ NO VOC'S PRESERVED WITH HCl

**Client Info:**

Name or Code: Village of Mineola

Address: 42 E 2nd Street

Mineola NY

Phone #: ____

Attn: ____

Proj. # or (Name): S16946 ONS1

Bill To: ____

Copies To: ____

| Sample Types | Purpose | Origin | Treatment Types |
|---|---|---|---|
| PW - Potable Water | RO - Routine | D - Distribution | AST - Air Stripper |
| GW - Groundwater | RE - Resample | RW - Raw Well | GAC - Granular Activated Charcoal |
| SW - Surface Water | S - Special | TW - Treated Well | N - Nitrate Removal Plant |
| WW - Waste Water | | T - Tank | FE - Iron Removal Plant |
| AQ - Aqueous | | MW - Monitoring Well | O - Other |
| S - Soil | | I - Influent | |
| | | E - Effluent | |

**Sample Info:**

| Date/Time Collected: | Sample Type | Location | Origin | Treatment Type | Purpose | Field Readings $Cl_2$ | Field Readings pH/Temp | Analysis | Lab No. |
|---|---|---|---|---|---|---|---|---|---|
| 945 | GW | Well 5 | RW | | RO | | 6.4/13.1 | 1,4 Dioxane / PFAS 537 | NY-04082 007 |
| 945 | | Well 5 | | | | | | Blank 537 | COC |
| | | | | | | | | | |
| 945 | GW | Well 5 | RW | | RO | | 6.4/13.1 | Base Not Doe | NY 04082 007 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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Remarks:

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(631) 694-3040 Fax: (631) 420-8436

# Sample Request Form
## PUBLIC WATER SUPPLIER

Return to Lab
8/3/21 1635

Date: 8/3/21

Collected By: NM/RT

Accepted By: [signature] 8/3/21 1450

Cooler Temp: °C

❑ WELL OFF LINE _____

❑ WELL RUN TO SYSTEM _____

☑ YES ❑ NO VOC'S PRESERVED WITH HCl

**Client Info:**

Name or Code: Village of Mineola

Address: 42nd Street

Mineola NY

Phone #: _____

Attn: _____

Proj. # or (Name): 516146 07351

Bill To: _____

Copies To: _____

| Sample Types | Purpose | Origin | Treatment Types |
|---|---|---|---|
| PW - Potable Water | (RO) - Routine | D - Distribution | AST - Air Stripper |
| (GW) - Groundwater | RE - Resample | (RW) - Raw Well | GAC - Granular Activated Charcoal |
| SW - Surface Water | S - Special | TW - Treated Well | N - Nitrate Removal Plant |
| WW - Waste Water | | T - Tank | FE - Iron Removal Plant |
| AQ - Aqueous | | MW - Monitoring Well | O - Other |
| S - Soil | | I - Influent | |
| | | E - Effluent | |

**Sample Info:**

| Date/Time Collected: | Sample Type | Location | Origin | Treatment Type | Purpose | Field Readings $Cl_2$ | Field Readings pH/Temp | Analysis | Lab No. |
|---|---|---|---|---|---|---|---|---|---|
| ~~945 am~~ | ~~GW~~ | ~~Well 5~~ | ~~RW~~ | | ~~RO~~ | | ~~6.4/13.1~~ | ~~Bac, Nit, Poe~~ | ~~N-04082~~ |
| 1010 am | GW | Well 6 | RW | | RO | | 6.4/13.5 | Bac, Nit, Poe | N-05596 009 |
| 1010 am | GW | Well 6 | RW | | RO | | 6.4/13.5 | 1,4 Dioxane PFOS 537 | N-05596 |
| | | Well 6 | | | | | | Blank Sample | 010 |

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

**WO#: 70182755**
**PM: JSA** **Due Date: 08/10/21**
**CLIENT: MWD**

Client Name: Mwcola Project

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

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

Thermometer Used: TH091 Correction Factor: +0.0

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

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☐ No

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: AY 8/3/21 1655

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 orignate 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: | ☐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 WT OIL | | | | |
| All containers needing preservation have been checked? | ☐Yes | ☐No | ☐N/A | 13. ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ NaOH ☐ HCl |
| pH paper Lot # | | | | Sample # |
| All containers needing preservation are found to be in compliance with method recommendation? ($HNO_3$, $H_2SO_4$, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) | ☐Yes | ☐No | ☐N/A | |
| Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis | | | | Initial when completed: / Lot # of added preservative: / Date/Time preservative added: |
| 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:

* PM (Project Manager) review is documented electronically in LIMS