

July 1, 2021

Port Washington Water District
PWS ID No. NY2912267
MCL Deferral for 1,4-dioxane
Quarterly Report – Second Quarter 2021

Introduction

On behalf of the Port Washington Water District (PWWD or District), D&B Engineers and Architects (D&B) has prepared this document in accordance with the requirements of the New York State Department of Health (NYSDOH) for public water suppliers who have been granted deferrals from maximum contaminant level (MCL) violations for 1,4-dioxane. The District was granted an MCL deferral for 1,4-dioxane in 2020. The PWWD was granted a deferral because it has been proactive in its efforts to establish and implement an action plan for managing the above-referenced compound.

The enclosed is a report describing the PWWD's progress towards maintaining the highest quality of water for our customers and meeting the deadlines set forth in the deferral approval. Updated schedules for each project are contained in **Attachment A**.

Corrective Action Plan Milestones

Hewlett Well 4

Detailed design documents were submitted to the local and state health departments for regulatory review in the first quarter of 2021, consistent with the project schedule. However, comments on these documents were not issued by the Nassau County Department of Health (NCDH) until May 28, 2021, which is later than was initially anticipated. The design documents are currently being revised to address comments issued by the NCDH. Once these revisions are made, plans will be resubmitted to the NCDH and NYSDOH for final approval. This change represents a slight delay in the project schedule. However, the project is still on track to be completed and the plant in service by the end of 2022.

Although it has been granted a deferral, the PWWD was able to implement conservation requirements and make operational changes to minimize or avoid the usage of this well.

Christopher Morley Park Station

The Christopher Morley Park Wells 8, 9, and 11 AOP project has completed the basis of design report phase and is now in the detailed design phase. Detailed design documents are on schedule to be submitted for regulatory review in the third quarter of 2021. The project is on schedule.

As stated previously, only one of the three (3) wells (Well 9) at the Morley Park Station has previously exhibited an MCL violation for 1,4-dioxane. Although a deferral has been granted, the District will continue to implement conservation requirements and make operational changes to ensure the use of Well 9 is either minimized or avoided.

Stonytown Well 10

The Stonytown Well 10 AOP project is currently in the design phase. Although significant progress was made in the development of the conceptual design plans, the AOP design was required to be paused for a portion of this past quarter to assess the potential need for nitrate treatment at the Stonytown Well 10 station. This was also noted in the previous quarterly report. It was determined that nitrate treatment will be added to the facility at this time as a joint AOP/nitrate treatment project. The next step is to revise the previously submitted basis of design report to add treatment for the removal of nitrates, which is what the project team is working on right now. At this point, it is still anticipated that the facility will be operational by the end of 2023.

Although a deferral has been granted, the District will continue to implement conservation requirements and make operational changes to ensure the use of Stonytown Well 10 is either minimized or avoided.

Public Notification

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

Analytical Sampling

Sample results for the wells for which deferrals were granted (Hewlett Well 4, Christopher Morley Park Wells 8, 9, and 11, and Stonytown Well 10) taken during the second quarter of 2021 are contained in the below tables. Full laboratory reports for each sample are contained in **Attachment B**.

1,4-dioxane (ppb)

Well	Date		
	April 2021	May 2021	June 2021
Hewlett Well 4 (N-2052)	0.87	0.85	0.90
Christopher Morley Park Well 8 (N-7551)	0.37	NS	NS
Christopher Morley Park Well 9 (N-7552)	6.70	6.50	5.40
Christopher Morley Park Well 11 (N-13510)	0.22	NS	NS
Stonytown Well 10 (N-9809)	0.73	0.70	0.73

NS = Not Sampled

Conclusion

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

Should you have any questions, please contact the District at 516-767-0171 or visit the website, www.pwwd.org.

Very truly yours,

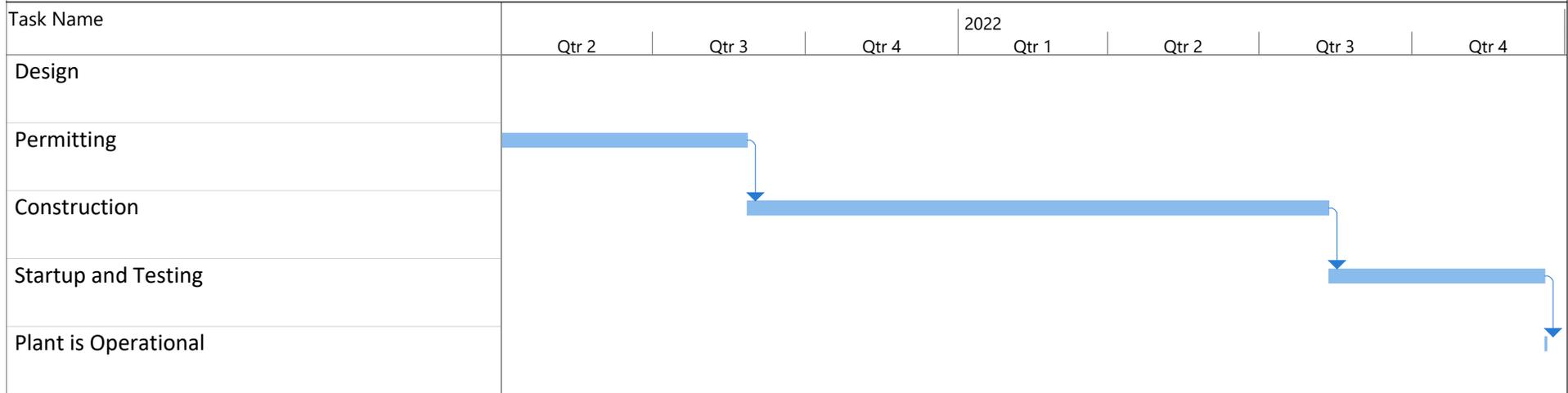
Board of Commissioners
Port Washington Water District

Enclosures

cc: K. Wheeler (NYSDOH)
B. Rogers (NYSDOH)
W. Provoncha (NCDH)
P. Young (NCDH)
R. Putnam (NCDH)
T. Vacchio (PWWD)
W. Merklin (D&B)
M. Savarese (D&B)
P. Connell (D&B)

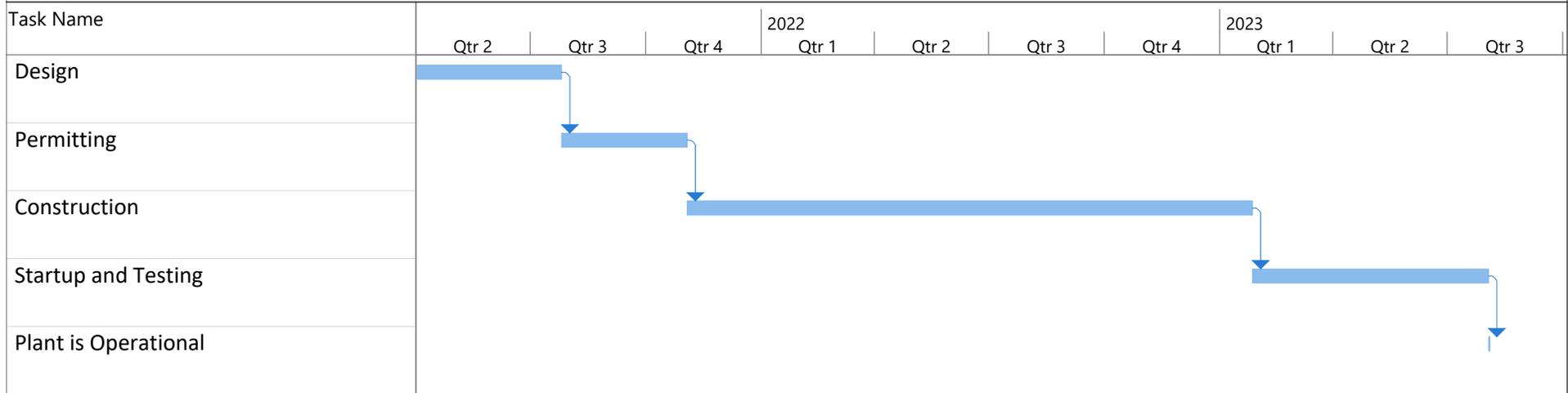
ATTACHMENT A

Project Schedules Associated with MCL Deferral



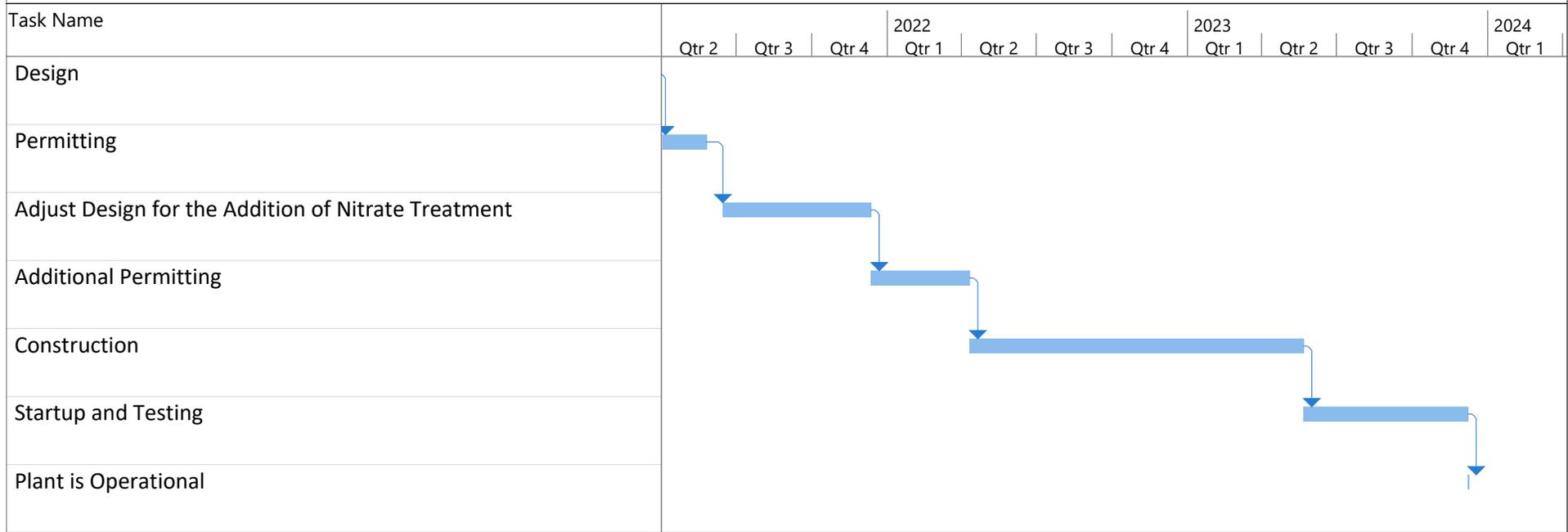
Port Washington Water District
MCL Deferral
Quarterly Report

Christopher Morley Park Station
AOP Project Schedule



Port Washington Water District
MCL Deferral
Quarterly Report

Stonytown Well 10
AOP Project Schedule



ATTACHMENT B

Water Quality Data

April 26, 2021

Supt. Tal Vacchio
Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050

RE: Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Dear Supt. Tal Vacchio:

Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 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 National - Mt. Juliet
- 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
Jim Van Horn
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Lisa Ortiz, D&B
Xavier Sardoni, D&B Engineers
Jasper Skliba, Port Washington W.D.
Reports User, Port Washington W.D.
Richard Zimbardi, Port Washington W.D.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236

Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Virginia Certification # 460302
Delaware Certification # NY10478
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16

Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375

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CERTIFICATIONS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Pace Analytical Services National

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70168807001	N-09809	Drinking Water	04/12/21 10:55	04/12/21 15:31
70168807002	GAC-09809	Drinking Water	04/12/21 11:15	04/12/21 15:31
70168807003	N-02030	Drinking Water	04/12/21 08:40	04/12/21 15:31
70168807004	GAC-02030	Drinking Water	04/12/21 08:05	04/12/21 15:31
70168807005	N-02052	Drinking Water	04/12/21 08:34	04/12/21 15:31
70168807006	GAC-02052	Drinking Water	04/12/21 07:55	04/12/21 15:31
70168807007	NR-02052	Drinking Water	04/12/21 08:12	04/12/21 15:31

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SAMPLE ANALYTE COUNT

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70168807001	N-09809	EPA 200.7	KM1	8	PACE-MV
		EPA 200.8	KS1	13	PACE-MV
		SM22 9223B Colilert	GFD	2	PACE-MV
		EPA 522	TJD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	CMB	10	PASI-O
		EPA 180.1	DJM	1	PACE-MV
		EPA 314.0	ELN	1	PAN
		SM22 2120B	SOA	2	PACE-MV
		SM22 2150B	SOA	1	PACE-MV
		SM22 2320B	DGC	1	PACE-MV
		SM22 2540C	NJS	1	PACE-MV
		SM22 5540C	DJM	2	PACE-MV
		SM22 2330 LSI	AKS	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		ASTM D7237-10	MEM1	1	PACE-MV
		70168807002	GAC-09809	EPA 200.7	KM1
EPA 200.8	KS1			13	PACE-MV
EPA 522	TJD			2	PACE-MV
EPA 524.2	KGG			62	PACE-MV
EPA 537.1	CMB			10	PASI-O
EPA 180.1	DJM			1	PACE-MV
EPA 314.0	ELN			1	PAN
SM22 2120B	SOA			2	PACE-MV
SM22 2150B	SOA			1	PACE-MV
SM22 2320B	DGC			1	PACE-MV
SM22 2540C	NJS			1	PACE-MV
SM22 5540C	DJM			2	PACE-MV
SM22 2330 LSI	AKS			1	PACE-MV
EPA 300.0	BNK			3	PACE-MV
EPA 353.2	PGL			2	PACE-MV
EPA 353.2	PGL			1	PACE-MV
SM22 4500 NH3 H	BNK			1	PACE-MV
ASTM D7237-10	MEM1			1	PACE-MV

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SAMPLE ANALYTE COUNT

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70168807003	N-02030	EPA 200.7	KM1	8	PACE-MV
		EPA 200.8	KS1	13	PACE-MV
		SM22 9223B Colilert	GFD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 180.1	DJM	1	PACE-MV
		EPA 314.0	ELN	1	PAN
		SM22 2120B	SOA	2	PACE-MV
		SM22 2150B	SOA	1	PACE-MV
		SM22 2320B	DGC	1	PACE-MV
		SM22 2540C	NJS	1	PACE-MV
		SM22 5540C	DJM	2	PACE-MV
		SM22 2330 LSI	AKS	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		ASTM D7237-10	MEM1	1	PACE-MV
70168807004	GAC-02030	EPA 200.7	KM1	8	PACE-MV
		EPA 200.8	KS1	13	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 180.1	DJM	1	PACE-MV
		EPA 314.0	ELN	1	PAN
		SM22 2120B	SOA	2	PACE-MV
		SM22 2150B	SOA	1	PACE-MV
		SM22 2320B	DGC	1	PACE-MV
		SM22 2540C	NJS	1	PACE-MV
		SM22 5540C	DJM	2	PACE-MV
		SM22 2330 LSI	AKS	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		ASTM D7237-10	MEM1	1	PACE-MV
		70168807005	N-02052	EPA 200.7	KM1
EPA 200.8	KS1			13	PACE-MV
SM22 9223B Colilert	GFD			2	PACE-MV
EPA 522	TJD			2	PACE-MV

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SAMPLE ANALYTE COUNT

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 524.2	KGG	62	PACE-MV
		EPA 524.3	BBL	6	PACE-MV
		EPA 537.1	CMB	10	PASI-O
		EPA 180.1	DJM	1	PACE-MV
		EPA 314.0	ELN	1	PAN
		SM22 2120B	SOA	2	PACE-MV
		SM22 2150B	SOA	1	PACE-MV
		SM22 2320B	DGC	1	PACE-MV
		SM22 2540C	NJS	1	PACE-MV
		SM22 5540C	DJM	2	PACE-MV
		SM22 2330 LSI	AKS	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		ASTM D7237-10	MEM1	1	PACE-MV
70168807006	GAC-02052	EPA 200.7	KM1	8	PACE-MV
		EPA 200.8	KS1	13	PACE-MV
		EPA 522	TJD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 524.3	BBL	6	PACE-MV
		EPA 537.1	CMB	10	PASI-O
		EPA 180.1	DJM	1	PACE-MV
		EPA 314.0	ELN	1	PAN
		SM22 2120B	SOA	2	PACE-MV
		SM22 2150B	SOA	1	PACE-MV
		SM22 2320B	DGC	1	PACE-MV
		SM22 2540C	NJS	1	PACE-MV
		SM22 5540C	DJM	2	PACE-MV
		SM22 2330 LSI	AKS	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		ASTM D7237-10	MEM1	1	PACE-MV
70168807007	NR-02052	SM22 9223B Colilert	GFD	2	PACE-MV

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SAMPLE ANALYTE COUNT

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PACE-MV = Pace Analytical Services - Melville
 PAN = Pace National - Mt. Juliet
 PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Sample: N-09809 **Lab ID: 70168807001** **Collected: 04/12/21 10:55** Received: 04/12/21 15:31 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7 Pace Analytical Services - Melville									
Calcium	26.6	mg/L	0.20		1		04/14/21 16:46	7440-70-2	
Ca Hardness as CaCO ₃ (SM 2340B)	66.4	mg/L	0.50		1		04/14/21 16:46		
Iron	<0.020	mg/L	0.020		1		04/14/21 16:46	7439-89-6	
Magnesium	16.6	mg/L	0.20		1		04/14/21 16:46	7439-95-4	
Manganese	<0.010	mg/L	0.010		1		04/14/21 16:46	7439-96-5	
Sodium	21.6	mg/L	0.20		1		04/14/21 16:46	7440-23-5	
Tot Hardness as CaCO ₃ (SM 2340B)	135	mg/L	0.83		1		04/14/21 16:46		N3
Zinc	0.053	mg/L	0.020		1		04/14/21 16:46	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8 Pace Analytical Services - Melville									
Antimony	<0.40	ug/L	0.40		1		04/20/21 12:19	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		04/20/21 12:19	7440-38-2	
Barium	0.058	mg/L	0.0020		1		04/20/21 12:19	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		04/20/21 12:19	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		04/20/21 12:19	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		04/20/21 12:19	7440-47-3	
Copper	<0.0020	mg/L	0.0020		1		04/20/21 12:19	7440-50-8	
Lead	<1.0	ug/L	1.0		1		04/20/21 12:19	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		04/20/21 12:19	7439-97-6	
Nickel	0.0015	mg/L	0.00050		1		04/20/21 12:19	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		04/20/21 12:19	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		04/20/21 12:19	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		04/20/21 12:19	7440-28-0	
MBIO Total Coliform DW									
Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert Pace Analytical Services - Melville									
Total Coliforms	Absent				1	04/12/21 16:10	04/13/21 10:10		
E.coli	Absent				1	04/12/21 16:10	04/13/21 10:10		
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.73	ug/L	0.020		1	04/21/21 09:54	04/21/21 20:51	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	04/21/21 09:54	04/21/21 20:51		
524.2 MSV									
Analytical Method: EPA 524.2 Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		04/17/21 01:07	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		04/17/21 01:07	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		04/17/21 01:07	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		04/17/21 01:07	75-25-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Sample: N-09809 **Lab ID: 70168807001** Collected: 04/12/21 10:55 Received: 04/12/21 15:31 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									
Bromomethane	<0.50	ug/L	0.50		1		04/17/21 01:07	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		04/17/21 01:07	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		04/17/21 01:07	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		04/17/21 01:07	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		04/17/21 01:07	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		04/17/21 01:07	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		04/17/21 01:07	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		04/17/21 01:07	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		04/17/21 01:07	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		04/17/21 01:07	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		04/17/21 01:07	75-71-8	
1,1-Dichloroethane	1.1	ug/L	0.50		1		04/17/21 01:07	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		04/17/21 01:07	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 01:07	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 01:07	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 01:07	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 01:07	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 01:07	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 01:07	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 01:07	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 01:07	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 01:07	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		04/17/21 01:07	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		04/17/21 01:07	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		04/17/21 01:07	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		04/17/21 01:07	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		04/17/21 01:07	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	103-65-1	
Styrene	<0.50	ug/L	0.50		1		04/17/21 01:07	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/17/21 01:07	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/17/21 01:07	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		04/17/21 01:07	127-18-4	
Toluene	<0.50	ug/L	0.50		1		04/17/21 01:07	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		04/17/21 01:07		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		04/17/21 01:07	71-55-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Sample: N-09809 Lab ID: 70168807001 Collected: 04/12/21 10:55 Received: 04/12/21 15:31 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									
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		04/17/21 01:07	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		04/17/21 01:07	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		04/17/21 01:07	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		04/17/21 01:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		04/17/21 01:07	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:07	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		04/17/21 01:07	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		04/17/21 01:07	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		04/17/21 01:07	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	79	%	70-130		1		04/17/21 01:07	2199-69-1	
4-Bromofluorobenzene (S)	90	%	70-130		1		04/17/21 01:07	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	04/15/21 16:16	04/23/21 20:36	375-73-5	
Perfluoroheptanoic acid	<1.8	ng/L	1.8		1	04/15/21 16:16	04/23/21 20:36	375-85-9	
Perfluorohexanesulfonic acid	2.4	ng/L	1.8		1	04/15/21 16:16	04/23/21 20:36	355-46-4	
Perfluorononanoic acid	<1.8	ng/L	1.8		1	04/15/21 16:16	04/23/21 20:36	375-95-1	
Perfluorooctanesulfonic acid	<1.8	ng/L	1.8		10	04/15/21 16:16	04/23/21 20:36	1763-23-1	
Perfluorooctanoic acid	3.3	ng/L	1.8		10	04/15/21 16:16	04/23/21 20:36	335-67-1	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	04/15/21 16:16	04/23/21 20:36		
13C2-PFHxA (S)	97	%	70-130		1	04/15/21 16:16	04/23/21 20:36		
NEtFOSAA-d5 (S)	99	%	70-130		1	04/15/21 16:16	04/23/21 20:36		
HFPO-DAS (S)	77	%	70-130		1	04/15/21 16:16	04/23/21 20:36		
180.1 Turbidity									
Analytical Method: EPA 180.1 Pace Analytical Services - Melville									
Turbidity	<1.0	NTU	1.0		1		04/13/21 15:59		
Wet Chemistry 314.0 Mod									
Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod Pace National - Mt. Juliet									
Perchlorate	<4.00	ug/L	4.00		1	04/16/21 00:06	04/16/21 00:06	14797-73-0	
2120B W Apparent Color									
Analytical Method: SM22 2120B Pace Analytical Services - Melville									
Apparent Color	<5.0	units	5.0		1		04/13/21 13:51		
pH	6.0	Std. Units	0.10		1		04/13/21 13:51		
2150B Threshold Odor Number									
Analytical Method: SM22 2150B Pace Analytical Services - Melville									
Odor @ 60 Degrees C	No odor observed		1.0		1		04/12/21 18:59		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Sample: N-09809		Lab ID: 70168807001		Collected: 04/12/21 10:55	Received: 04/12/21 15:31	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity									
Analytical Method: SM22 2320B Pace Analytical Services - Melville									
Alkalinity, Total as CaCO3	56.0	mg/L	1.0		1		04/20/21 19:27		
2540C Total Dissolved Solids									
Analytical Method: SM22 2540C Pace Analytical Services - Melville									
Total Dissolved Solids	236	mg/L	10.0		1		04/15/21 10:32		
5540C MBAS Surfactants									
Analytical Method: SM22 5540C Preparation Method: SM22 5540C Pace Analytical Services - Melville									
LAS Molecular Weight, g/mol	320				1	04/13/21 18:00	04/13/21 18:01		
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	04/13/21 18:00	04/13/21 18:01		
Langelier Saturation Index									
Analytical Method: SM22 2330 LSI Pace Analytical Services - Melville									
Corrosivity	-2.81				1		04/26/21 16:49		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Melville									
Chloride	50.1	mg/L	2.0		1		04/20/21 20:28	16887-00-6	
Fluoride	<0.10	mg/L	0.10		1		04/20/21 20:28	16984-48-8	
Sulfate	38.6	mg/L	5.0		1		04/20/21 20:28	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrate as N	5.8	mg/L	0.25		5		04/12/21 23:12	14797-55-8	
Nitrate-Nitrite (as N)	5.8	mg/L	0.25		5		04/12/21 23:12	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		04/12/21 21:05	14797-65-0	
4500 Ammonia Water									
Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville									
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		04/22/21 15:52	7664-41-7	
Cyanide, Free									
Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville									
Cyanide, Free	<10.0	ug/L	10.0		1		04/16/21 09:13	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Sample: GAC-09809 Lab ID: 70168807002 Collected: 04/12/21 11:15 Received: 04/12/21 15:31 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7 Pace Analytical Services - Melville									
Calcium	26.2	mg/L	0.20		1		04/14/21 16:47	7440-70-2	
Ca Hardness as CaCO ₃ (SM 2340B)	65.4	mg/L	0.50		1		04/14/21 16:47		
Iron	<0.020	mg/L	0.020		1		04/14/21 16:47	7439-89-6	
Magnesium	15.9	mg/L	0.20		1		04/14/21 16:47	7439-95-4	
Manganese	<0.010	mg/L	0.010		1		04/14/21 16:47	7439-96-5	
Sodium	21.5	mg/L	0.20		1		04/14/21 16:47	7440-23-5	
Tot Hardness as CaCO ₃ (SM 2340B)	131	mg/L	0.83		1		04/14/21 16:47		N3
Zinc	<0.020	mg/L	0.020		1		04/14/21 16:47	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8 Pace Analytical Services - Melville									
Antimony	<0.40	ug/L	0.40		1		04/20/21 12:20	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		04/20/21 12:20	7440-38-2	
Barium	0.060	mg/L	0.0020		1		04/20/21 12:20	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		04/20/21 12:20	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		04/20/21 12:20	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		04/20/21 12:20	7440-47-3	
Copper	<0.0020	mg/L	0.0020		1		04/20/21 12:20	7440-50-8	
Lead	<1.0	ug/L	1.0		1		04/20/21 12:20	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		04/20/21 12:20	7439-97-6	
Nickel	0.0014	mg/L	0.00050		1		04/20/21 12:20	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		04/20/21 12:20	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		04/20/21 12:20	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		04/20/21 12:20	7440-28-0	
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane) Surrogates	0.71	ug/L	0.020		1	04/21/21 09:54	04/21/21 21:07	123-91-1	
1,4-Dioxane-d8 (S)	88	%	70-130		1	04/21/21 09:54	04/21/21 21:07		
524.2 MSV									
Analytical Method: EPA 524.2 Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		04/16/21 23:48	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		04/16/21 23:48	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		04/16/21 23:48	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		04/16/21 23:48	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		04/16/21 23:48	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		04/16/21 23:48	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Project No.: 70168807

Sample: GAC-09809 **Lab ID: 70168807002** Collected: 04/12/21 11:15 Received: 04/12/21 15:31 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									
Chlorobenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		04/16/21 23:48	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		04/16/21 23:48	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		04/16/21 23:48	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		04/16/21 23:48	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		04/16/21 23:48	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		04/16/21 23:48	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		04/16/21 23:48	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		04/16/21 23:48	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		04/16/21 23:48	75-71-8	
1,1-Dichloroethane	1.2	ug/L	0.50		1		04/16/21 23:48	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		04/16/21 23:48	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		04/16/21 23:48	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/16/21 23:48	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/16/21 23:48	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		04/16/21 23:48	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		04/16/21 23:48	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		04/16/21 23:48	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		04/16/21 23:48	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/16/21 23:48	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/16/21 23:48	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		04/16/21 23:48	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		04/16/21 23:48	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		04/16/21 23:48	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		04/16/21 23:48	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		04/16/21 23:48	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	103-65-1	
Styrene	<0.50	ug/L	0.50		1		04/16/21 23:48	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/16/21 23:48	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/16/21 23:48	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		04/16/21 23:48	127-18-4	
Toluene	<0.50	ug/L	0.50		1		04/16/21 23:48	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		04/16/21 23:48		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		04/16/21 23:48	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		04/16/21 23:48	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		04/16/21 23:48	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		04/16/21 23:48	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		04/16/21 23:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		04/16/21 23:48	76-13-1	N3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Sample: GAC-09809 Lab ID: 70168807002 Collected: 04/12/21 11:15 Received: 04/12/21 15:31 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									
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		04/16/21 23:48	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		04/16/21 23:48	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		04/16/21 23:48	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		04/16/21 23:48	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	76	%	70-130		1		04/16/21 23:48	2199-69-1	
4-Bromofluorobenzene (S)	82	%	70-130		1		04/16/21 23:48	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	04/15/21 16:16	04/23/21 20:56	375-73-5	
Perfluoroheptanoic acid	<1.8	ng/L	1.8		1	04/15/21 16:16	04/23/21 20:56	375-85-9	
Perfluorohexanesulfonic acid	<1.8	ng/L	1.8		1	04/15/21 16:16	04/23/21 20:56	355-46-4	
Perfluorononanoic acid	<1.8	ng/L	1.8		1	04/15/21 16:16	04/23/21 20:56	375-95-1	
Perfluorooctanesulfonic acid	<1.8	ng/L	1.8		10	04/15/21 16:16	04/23/21 20:56	1763-23-1	
Perfluorooctanoic acid	<1.8	ng/L	1.8		10	04/15/21 16:16	04/23/21 20:56	335-67-1	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	04/15/21 16:16	04/23/21 20:56		
13C2-PFHxA (S)	97	%	70-130		1	04/15/21 16:16	04/23/21 20:56		
NEtFOSAA-d5 (S)	99	%	70-130		1	04/15/21 16:16	04/23/21 20:56		
HFPO-DAS (S)	78	%	70-130		1	04/15/21 16:16	04/23/21 20:56		
180.1 Turbidity									
Analytical Method: EPA 180.1 Pace Analytical Services - Melville									
Turbidity	<1.0	NTU	1.0		1		04/13/21 16:02		
Wet Chemistry 314.0 Mod									
Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod Pace National - Mt. Juliet									
Perchlorate	<4.00	ug/L	4.00		1	04/16/21 00:32	04/16/21 00:32	14797-73-0	
2120B W Apparent Color									
Analytical Method: SM22 2120B Pace Analytical Services - Melville									
Apparent Color	<5.0	units	5.0		1		04/13/21 13:51		
pH	6.4	Std. Units	0.10		1		04/13/21 13:51		
2150B Threshold Odor Number									
Analytical Method: SM22 2150B Pace Analytical Services - Melville									
Odor @ 60 Degrees C	No odor observed		1.0		1		04/12/21 18:59		
2320B Alkalinity									
Analytical Method: SM22 2320B Pace Analytical Services - Melville									
Alkalinity, Total as CaCO3	55.4	mg/L	1.0		1		04/21/21 18:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Sample: GAC-09809 Lab ID: 70168807002 Collected: 04/12/21 11:15 Received: 04/12/21 15:31 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids									
Analytical Method: SM22 2540C Pace Analytical Services - Melville									
Total Dissolved Solids	232	mg/L	20.0		1		04/15/21 10:49		
5540C MBAS Surfactants									
Analytical Method: SM22 5540C Preparation Method: SM22 5540C Pace Analytical Services - Melville									
LAS Molecular Weight, g/mol	320				1	04/13/21 18:00	04/13/21 18:01		
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	04/13/21 18:00	04/13/21 18:01		
Langelier Saturation Index									
Analytical Method: SM22 2330 LSI Pace Analytical Services - Melville									
Corrosivity	-2.83				1		04/26/21 16:49		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Melville									
Chloride	49.9	mg/L	2.0		1		04/20/21 21:09	16887-00-6	
Fluoride	<0.10	mg/L	0.10		1		04/20/21 21:09	16984-48-8	
Sulfate	38.6	mg/L	5.0		1		04/20/21 21:09	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrate as N	5.7	mg/L	0.25		5		04/12/21 23:13	14797-55-8	
Nitrate-Nitrite (as N)	5.8	mg/L	0.25		5		04/12/21 23:13	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		04/12/21 21:06	14797-65-0	
4500 Ammonia Water									
Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville									
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		04/22/21 15:53	7664-41-7	
Cyanide, Free									
Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville									
Cyanide, Free	<10.0	ug/L	10.0		1		04/16/21 09:17	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Sample: N-02030 **Lab ID: 70168807003** Collected: 04/12/21 08:40 Received: 04/12/21 15:31 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7									
Pace Analytical Services - Melville									
Calcium	33.7	mg/L	0.20		1		04/14/21 16:49	7440-70-2	
Ca Hardness as CaCO ₃ (SM 2340B)	84.1	mg/L	0.50		1		04/14/21 16:49		
Iron	0.025	mg/L	0.020		1		04/14/21 16:49	7439-89-6	
Magnesium	11.6	mg/L	0.20		1		04/14/21 16:49	7439-95-4	
Manganese	0.12	mg/L	0.010		1		04/14/21 16:49	7439-96-5	
Sodium	20.2	mg/L	0.20		1		04/14/21 16:49	7440-23-5	
Tot Hardness as CaCO ₃ (SM 2340B)	132	mg/L	0.83		1		04/14/21 16:49		N3
Zinc	0.046	mg/L	0.020		1		04/14/21 16:49	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8									
Pace Analytical Services - Melville									
Antimony	<0.40	ug/L	0.40		1		04/20/21 12:22	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		04/20/21 12:22	7440-38-2	
Barium	0.037	mg/L	0.0020		1		04/20/21 12:22	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		04/20/21 12:22	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		04/20/21 12:22	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		04/20/21 12:22	7440-47-3	
Copper	0.011	mg/L	0.0020		1		04/20/21 12:22	7440-50-8	
Lead	<1.0	ug/L	1.0		1		04/20/21 12:22	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		04/20/21 12:22	7439-97-6	
Nickel	0.0011	mg/L	0.00050		1		04/20/21 12:22	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		04/20/21 12:22	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		04/20/21 12:22	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		04/20/21 12:22	7440-28-0	
MBIO Total Coliform DW									
Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert									
Pace Analytical Services - Melville									
Total Coliforms	Absent				1	04/12/21 16:10	04/13/21 10:10		
E.coli	Absent				1	04/12/21 16:10	04/13/21 10:10		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		04/17/21 01:34	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		04/17/21 01:34	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		04/17/21 01:34	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		04/17/21 01:34	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		04/17/21 01:34	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		04/17/21 01:34	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	108-90-7	

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Sample: N-02030 **Lab ID: 70168807003** Collected: 04/12/21 08:40 Received: 04/12/21 15:31 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									
Chlorodifluoromethane	<0.50	ug/L	0.50		1		04/17/21 01:34	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		04/17/21 01:34	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		04/17/21 01:34	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		04/17/21 01:34	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		04/17/21 01:34	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		04/17/21 01:34	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		04/17/21 01:34	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		04/17/21 01:34	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		04/17/21 01:34	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		04/17/21 01:34	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		04/17/21 01:34	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 01:34	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 01:34	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 01:34	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 01:34	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 01:34	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 01:34	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 01:34	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 01:34	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 01:34	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		04/17/21 01:34	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		04/17/21 01:34	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		04/17/21 01:34	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		04/17/21 01:34	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		04/17/21 01:34	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	103-65-1	
Styrene	<0.50	ug/L	0.50		1		04/17/21 01:34	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/17/21 01:34	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/17/21 01:34	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		04/17/21 01:34	127-18-4	
Toluene	<0.50	ug/L	0.50		1		04/17/21 01:34	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		04/17/21 01:34		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		04/17/21 01:34	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		04/17/21 01:34	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		04/17/21 01:34	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		04/17/21 01:34	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		04/17/21 01:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		04/17/21 01:34	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	95-63-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Sample: N-02030		Lab ID: 70168807003		Collected: 04/12/21 08:40	Received: 04/12/21 15:31	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								
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		04/17/21 01:34	108-67-8		
Vinyl chloride	<0.50	ug/L	0.50		1		04/17/21 01:34	75-01-4		
m&p-Xylene	<0.50	ug/L	0.50		1		04/17/21 01:34	179601-23-1		
o-Xylene	<0.50	ug/L	0.50		1		04/17/21 01:34	95-47-6		
Surrogates										
1,2-Dichlorobenzene-d4 (S)	73	%	70-130		1		04/17/21 01:34	2199-69-1		
4-Bromofluorobenzene (S)	89	%	70-130		1		04/17/21 01:34	460-00-4		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville								
Turbidity	<1.0	NTU	1.0		1		04/13/21 15:56			
Wet Chemistry 314.0 Mod		Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod Pace National - Mt. Juliet								
Perchlorate	<4.00	ug/L	4.00		1	04/16/21 00:59	04/16/21 00:59	14797-73-0		
2120B W Apparent Color		Analytical Method: SM22 2120B Pace Analytical Services - Melville								
Apparent Color	<5.0	units	5.0		1		04/13/21 13:50			
pH	6.1	Std. Units	0.10		1		04/13/21 13:50			
2150B Threshold Odor Number		Analytical Method: SM22 2150B Pace Analytical Services - Melville								
Odor @ 60 Degrees C	No odor observed		1.0		1		04/12/21 18:59			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville								
Alkalinity, Total as CaCO3	67.5	mg/L	1.0		1		04/21/21 18:25			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville								
Total Dissolved Solids	224	mg/L	20.0		1		04/15/21 10:50			
5540C MBAS Surfactants		Analytical Method: SM22 5540C Preparation Method: SM22 5540C Pace Analytical Services - Melville								
LAS Molecular Weight, g/mol	320				1	04/13/21 18:00	04/13/21 18:01			
MBAS, Calculated as LAS	1.8	mg/L	0.080		1	04/13/21 18:00	04/13/21 18:01			
Langelier Saturation Index		Analytical Method: SM22 2330 LSI Pace Analytical Services - Melville								
Corrosivity	-2.03				1		04/26/21 16:49			

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Sample: N-02030		Lab ID: 70168807003		Collected: 04/12/21 08:40	Received: 04/12/21 15:31	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	37.4	mg/L	2.0		1		04/20/21 21:49	16887-00-6	
Fluoride	<0.10	mg/L	0.10		1		04/20/21 21:49	16984-48-8	
Sulfate	54.6	mg/L	5.0		1		04/20/21 21:49	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	3.6	mg/L	0.25		5		04/12/21 23:14	14797-55-8	
Nitrate-Nitrite (as N)	3.6	mg/L	0.25		5		04/12/21 23:14	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		04/12/21 21:07	14797-65-0	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		04/22/21 15:57	7664-41-7	
Cyanide, Free		Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville							
Cyanide, Free	<10.0	ug/L	10.0		1		04/16/21 09:21	57-12-5	

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Sample: GAC-02030 Lab ID: 70168807004 Collected: 04/12/21 08:05 Received: 04/12/21 15:31 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7									
Pace Analytical Services - Melville									
Calcium	32.7	mg/L	0.20		1		04/14/21 16:51	7440-70-2	
Ca Hardness as CaCO ₃ (SM 2340B)	81.7	mg/L	0.50		1		04/14/21 16:51		
Iron	<0.020	mg/L	0.020		1		04/14/21 16:51	7439-89-6	
Magnesium	11.5	mg/L	0.20		1		04/14/21 16:51	7439-95-4	
Manganese	0.14	mg/L	0.010		1		04/14/21 16:51	7439-96-5	
Sodium	20.2	mg/L	0.20		1		04/14/21 16:51	7440-23-5	
Tot Hardness as CaCO ₃ (SM 2340B)	129	mg/L	0.83		1		04/14/21 16:51		N3
Zinc	<0.020	mg/L	0.020		1		04/14/21 16:51	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8									
Pace Analytical Services - Melville									
Antimony	<0.40	ug/L	0.40		1		04/20/21 12:24	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		04/20/21 12:24	7440-38-2	
Barium	0.034	mg/L	0.0020		1		04/20/21 12:24	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		04/20/21 12:24	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		04/20/21 12:24	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		04/20/21 12:24	7440-47-3	
Copper	0.033	mg/L	0.0020		1		04/20/21 12:24	7440-50-8	
Lead	<1.0	ug/L	1.0		1		04/20/21 12:24	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		04/20/21 12:24	7439-97-6	
Nickel	0.0012	mg/L	0.00050		1		04/20/21 12:24	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		04/20/21 12:24	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		04/20/21 12:24	7440-22-4	M1
Thallium	<0.30	ug/L	0.30		1		04/20/21 12:24	7440-28-0	
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		04/17/21 00:14	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		04/17/21 00:14	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		04/17/21 00:14	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		04/17/21 00:14	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		04/17/21 00:14	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		04/17/21 00:14	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		04/17/21 00:14	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		04/17/21 00:14	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		04/17/21 00:14	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		04/17/21 00:14	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		04/17/21 00:14	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Sample: GAC-02030 **Lab ID: 70168807004** Collected: 04/12/21 08:05 Received: 04/12/21 15:31 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									
4-Chlorotoluene	<0.50	ug/L	0.50		1		04/17/21 00:14	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		04/17/21 00:14	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		04/17/21 00:14	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		04/17/21 00:14	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		04/17/21 00:14	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		04/17/21 00:14	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 00:14	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 00:14	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 00:14	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 00:14	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 00:14	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 00:14	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 00:14	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 00:14	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 00:14	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		04/17/21 00:14	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		04/17/21 00:14	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		04/17/21 00:14	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		04/17/21 00:14	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		04/17/21 00:14	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	103-65-1	
Styrene	<0.50	ug/L	0.50		1		04/17/21 00:14	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/17/21 00:14	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/17/21 00:14	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		04/17/21 00:14	127-18-4	
Toluene	<0.50	ug/L	0.50		1		04/17/21 00:14	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		04/17/21 00:14		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		04/17/21 00:14	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		04/17/21 00:14	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		04/17/21 00:14	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		04/17/21 00:14	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		04/17/21 00:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		04/17/21 00:14	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:14	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		04/17/21 00:14	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		04/17/21 00:14	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		04/17/21 00:14	95-47-6	

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Sample: GAC-02030		Lab ID: 70168807004		Collected: 04/12/21 08:05	Received: 04/12/21 15:31	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								
Surrogates										
1,2-Dichlorobenzene-d4 (S)	73	%	70-130		1		04/17/21 00:14	2199-69-1		
4-Bromofluorobenzene (S)	86	%	70-130		1		04/17/21 00:14	460-00-4		
180.1 Turbidity		Analytical Method: EPA 180.1 Pace Analytical Services - Melville								
Turbidity	<1.0	NTU	1.0		1		04/13/21 15:53			
Wet Chemistry 314.0 Mod		Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod Pace National - Mt. Juliet								
Perchlorate	<4.00	ug/L	4.00		1	04/16/21 01:25	04/16/21 01:25	14797-73-0		
2120B W Apparent Color		Analytical Method: SM22 2120B Pace Analytical Services - Melville								
Apparent Color	<5.0	units	5.0		1		04/13/21 13:50			
pH	6.0	Std. Units	0.10		1		04/13/21 13:50			
2150B Threshold Odor Number		Analytical Method: SM22 2150B Pace Analytical Services - Melville								
Odor @ 60 Degrees C	No odor observed		1.0		1		04/12/21 18:58			
2320B Alkalinity		Analytical Method: SM22 2320B Pace Analytical Services - Melville								
Alkalinity, Total as CaCO3	55.0	mg/L	1.0		1		04/21/21 18:32			
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville								
Total Dissolved Solids	232	mg/L	20.0		1		04/15/21 10:50			
5540C MBAS Surfactants		Analytical Method: SM22 5540C Preparation Method: SM22 5540C Pace Analytical Services - Melville								
LAS Molecular Weight, g/mol	320				1	04/13/21 18:00	04/13/21 18:01			
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	04/13/21 18:00	04/13/21 18:01			
Langelier Saturation Index		Analytical Method: SM22 2330 LSI Pace Analytical Services - Melville								
Corrosivity	-2.23				1		04/26/21 16:49			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville								
Chloride	38.2	mg/L	2.0		1		04/20/21 22:03	16887-00-6		
Fluoride	<0.10	mg/L	0.10		1		04/20/21 22:03	16984-48-8		
Sulfate	54.8	mg/L	5.0		1		04/20/21 22:03	14808-79-8		

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Sample: GAC-02030		Lab ID: 70168807004		Collected: 04/12/21 08:05	Received: 04/12/21 15:31	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	3.8	mg/L	0.25		5		04/12/21 23:17	14797-55-8	
Nitrate-Nitrite (as N)	3.8	mg/L	0.25		5		04/12/21 23:17	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		04/12/21 21:13	14797-65-0	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		04/22/21 16:00	7664-41-7	
Cyanide, Free		Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville							
Cyanide, Free	<10.0	ug/L	10.0		1		04/16/21 09:34	57-12-5	

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Sample: N-02052 **Lab ID: 70168807005** **Collected: 04/12/21 08:34** Received: 04/12/21 15:31 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7 Pace Analytical Services - Melville									
Calcium	21.5	mg/L	0.20		1		04/14/21 16:53	7440-70-2	
Ca Hardness as CaCO ₃ (SM 2340B)	53.7	mg/L	0.50		1		04/14/21 16:53		
Iron	<0.020	mg/L	0.020		1		04/14/21 16:53	7439-89-6	
Magnesium	11.6	mg/L	0.20		1		04/14/21 16:53	7439-95-4	
Manganese	<0.010	mg/L	0.010		1		04/14/21 16:53	7439-96-5	
Sodium	29.3	mg/L	0.20		1		04/14/21 16:53	7440-23-5	
Tot Hardness as CaCO ₃ (SM 2340B)	101	mg/L	0.83		1		04/14/21 16:53		N3
Zinc	<0.020	mg/L	0.020		1		04/14/21 16:53	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8 Pace Analytical Services - Melville									
Antimony	<0.40	ug/L	0.40		1		04/20/21 12:29	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		04/20/21 12:29	7440-38-2	
Barium	0.033	mg/L	0.0020		1		04/20/21 12:29	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		04/20/21 12:29	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		04/20/21 12:29	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		04/20/21 12:29	7440-47-3	
Copper	0.0030	mg/L	0.0020		1		04/20/21 12:29	7440-50-8	
Lead	<1.0	ug/L	1.0		1		04/20/21 12:29	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		04/20/21 12:29	7439-97-6	
Nickel	0.0012	mg/L	0.00050		1		04/20/21 12:29	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		04/20/21 12:29	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		04/20/21 12:29	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		04/20/21 12:29	7440-28-0	
MBIO Total Coliform DW									
Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert Pace Analytical Services - Melville									
Total Coliforms	Absent				1	04/12/21 16:10	04/13/21 10:10		
E.coli	Absent				1	04/12/21 16:10	04/13/21 10:10		
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.87	ug/L	0.020		1	04/21/21 09:54	04/21/21 21:23	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	89	%	70-130		1	04/21/21 09:54	04/21/21 21:23		
524.2 MSV									
Analytical Method: EPA 524.2 Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		04/17/21 02:00	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		04/17/21 02:00	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		04/17/21 02:00	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		04/17/21 02:00	75-25-2	

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Sample: N-02052 Lab ID: 70168807005 Collected: 04/12/21 08:34 Received: 04/12/21 15:31 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									
Bromomethane	<0.50	ug/L	0.50		1		04/17/21 02:00	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		04/17/21 02:00	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		04/17/21 02:00	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		04/17/21 02:00	75-00-3	
Chloroform	0.83	ug/L	0.50		1		04/17/21 02:00	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		04/17/21 02:00	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		04/17/21 02:00	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		04/17/21 02:00	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		04/17/21 02:00	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		04/17/21 02:00	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		04/17/21 02:00	75-71-8	
1,1-Dichloroethane	1.1	ug/L	0.50		1		04/17/21 02:00	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		04/17/21 02:00	107-06-2	
1,1-Dichloroethene	0.54	ug/L	0.50		1		04/17/21 02:00	75-35-4	
cis-1,2-Dichloroethene	3.8	ug/L	0.50		1		04/17/21 02:00	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 02:00	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 02:00	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 02:00	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 02:00	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 02:00	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 02:00	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 02:00	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		04/17/21 02:00	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		04/17/21 02:00	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		04/17/21 02:00	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		04/17/21 02:00	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		04/17/21 02:00	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	103-65-1	
Styrene	<0.50	ug/L	0.50		1		04/17/21 02:00	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/17/21 02:00	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/17/21 02:00	79-34-5	
Tetrachloroethene	14.9	ug/L	0.50		1		04/17/21 02:00	127-18-4	
Toluene	<0.50	ug/L	0.50		1		04/17/21 02:00	108-88-3	
Total Trihalomethanes (Calc.)	0.83	ug/L	0.50		1		04/17/21 02:00		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		04/17/21 02:00	71-55-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Project No.: 70168807

Sample: N-02052	Lab ID: 70168807005	Collected: 04/12/21 08:34	Received: 04/12/21 15:31	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									
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		04/17/21 02:00	79-00-5	
Trichloroethene	1.0	ug/L	0.50		1		04/17/21 02:00	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		04/17/21 02:00	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		04/17/21 02:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		04/17/21 02:00	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:00	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		04/17/21 02:00	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		04/17/21 02:00	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		04/17/21 02:00	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	85	%	70-130		1		04/17/21 02:00	2199-69-1	
4-Bromofluorobenzene (S)	89	%	70-130		1		04/17/21 02:00	460-00-4	
524.3 MSV SIM									
Analytical Method: EPA 524.3									
Pace Analytical Services - Melville									
1,2,3-Trichloropropane	<0.010	ug/L	0.010		1		04/16/21 00:27	96-18-4	
1,2-Dibromoethane (EDB)	0.011	ug/L	0.010		1		04/16/21 00:27	106-93-4	
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1		04/16/21 00:27	96-12-8	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		04/16/21 00:27	2199-69-1	
tert Butyl Methyl-d3 Ether (S)	100	%	70-130		1		04/16/21 00:27	29366-08-3	
4-Bromofluorobenzene (S)	91	%	70-130		1		04/16/21 00:27	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	04/15/21 16:16	04/23/21 20:18	375-73-5	
Perfluoroheptanoic acid	2.4	ng/L	1.9		1	04/15/21 16:16	04/23/21 20:18	375-85-9	
Perfluorohexanesulfonic acid	2.9	ng/L	1.9		1	04/15/21 16:16	04/23/21 20:18	355-46-4	
Perfluorononanoic acid	31.6	ng/L	1.9		1	04/15/21 16:16	04/23/21 20:18	375-95-1	
Perfluorooctanesulfonic acid	5.6	ng/L	1.9		10	04/15/21 16:16	04/23/21 20:18	1763-23-1	
Perfluorooctanoic acid	4.9	ng/L	1.9		10	04/15/21 16:16	04/23/21 20:18	335-67-1	
Surrogates									
13C2-PFDA (S)	95	%	70-130		1	04/15/21 16:16	04/23/21 20:18		
13C2-PFHxA (S)	96	%	70-130		1	04/15/21 16:16	04/23/21 20:18		
NEtFOSAA-d5 (S)	99	%	70-130		1	04/15/21 16:16	04/23/21 20:18		
HFPO-DAS (S)	83	%	70-130		1	04/15/21 16:16	04/23/21 20:18		
180.1 Turbidity									
Analytical Method: EPA 180.1									
Pace Analytical Services - Melville									
Turbidity	<1.0	NTU	1.0		1		04/13/21 15:55		
Wet Chemistry 314.0 Mod									
Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod									
Pace National - Mt. Juliet									
Perchlorate	<4.00	ug/L	4.00		1	04/16/21 01:52	04/16/21 01:52	14797-73-0	

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Sample: N-02052 Lab ID: 70168807005 Collected: 04/12/21 08:34 Received: 04/12/21 15:31 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
2120B W Apparent Color									
Analytical Method: SM22 2120B Pace Analytical Services - Melville									
Apparent Color	<5.0	units	5.0		1		04/13/21 13:50		
pH	6.0	Std. Units	0.10		1		04/13/21 13:50		
2150B Threshold Odor Number									
Analytical Method: SM22 2150B Pace Analytical Services - Melville									
Odor @ 60 Degrees C	No odor observed		1.0		1		04/12/21 18:58		
2320B Alkalinity									
Analytical Method: SM22 2320B Pace Analytical Services - Melville									
Alkalinity, Total as CaCO3	32.9	mg/L	1.0		1		04/21/21 18:39		
2540C Total Dissolved Solids									
Analytical Method: SM22 2540C Pace Analytical Services - Melville									
Total Dissolved Solids	242	mg/L	20.0		1		04/15/21 10:50		
5540C MBAS Surfactants									
Analytical Method: SM22 5540C Preparation Method: SM22 5540C Pace Analytical Services - Melville									
LAS Molecular Weight, g/mol	320				1	04/13/21 18:00	04/13/21 18:01		
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	04/13/21 18:00	04/13/21 18:01		
Langelier Saturation Index									
Analytical Method: SM22 2330 LSI Pace Analytical Services - Melville									
Corrosivity	-3.33				1		04/26/21 16:49		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Melville									
Chloride	60.2	mg/L	2.0		1		04/20/21 22:16	16887-00-6	
Fluoride	<0.10	mg/L	0.10		1		04/20/21 22:16	16984-48-8	
Sulfate	22.4	mg/L	5.0		1		04/20/21 22:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrate as N	10.7	mg/L	0.25		5		04/12/21 23:19	14797-55-8	
Nitrate-Nitrite (as N)	10.7	mg/L	0.25		5		04/12/21 23:19	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		04/12/21 21:14	14797-65-0	
4500 Ammonia Water									
Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville									
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		04/22/21 16:02	7664-41-7	

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Sample: N-02052 **Lab ID: 70168807005** Collected: 04/12/21 08:34 Received: 04/12/21 15:31 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Cyanide, Free	Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville								
Cyanide, Free	<10.0	ug/L	10.0		1		04/16/21 09:38	57-12-5	

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Sample: GAC-02052 Lab ID: 70168807006 Collected: 04/12/21 07:55 Received: 04/12/21 15:31 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7 Pace Analytical Services - Melville									
Calcium	21.9	mg/L	0.20		1		04/14/21 16:55	7440-70-2	
Ca Hardness as CaCO ₃ (SM 2340B)	54.7	mg/L	0.50		1		04/14/21 16:55		
Iron	<0.020	mg/L	0.020		1		04/14/21 16:55	7439-89-6	
Magnesium	11.8	mg/L	0.20		1		04/14/21 16:55	7439-95-4	
Manganese	<0.010	mg/L	0.010		1		04/14/21 16:55	7439-96-5	
Sodium	33.1	mg/L	0.20		1		04/14/21 16:55	7440-23-5	
Tot Hardness as CaCO ₃ (SM 2340B)	103	mg/L	0.83		1		04/14/21 16:55		N3
Zinc	0.035	mg/L	0.020		1		04/14/21 16:55	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8 Pace Analytical Services - Melville									
Antimony	<0.40	ug/L	0.40		1		04/20/21 12:30	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		04/20/21 12:30	7440-38-2	
Barium	0.037	mg/L	0.0020		1		04/20/21 12:30	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		04/20/21 12:30	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		04/20/21 12:30	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		04/20/21 12:30	7440-47-3	
Copper	0.011	mg/L	0.0020		1		04/20/21 12:30	7440-50-8	
Lead	2.4	ug/L	1.0		1		04/20/21 12:30	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		04/20/21 12:30	7439-97-6	
Nickel	0.0021	mg/L	0.00050		1		04/20/21 12:30	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		04/20/21 12:30	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		04/20/21 12:30	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		04/20/21 12:30	7440-28-0	
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	1.1	ug/L	0.020		1	04/21/21 09:54	04/21/21 21:56	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	88	%	70-130		1	04/21/21 09:54	04/21/21 21:56		
524.2 MSV									
Analytical Method: EPA 524.2 Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		04/17/21 00:41	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		04/17/21 00:41	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		04/17/21 00:41	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		04/17/21 00:41	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		04/17/21 00:41	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		04/17/21 00:41	56-23-5	

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Project No.: 70168807

Sample: GAC-02052 **Lab ID: 70168807006** Collected: 04/12/21 07:55 Received: 04/12/21 15:31 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									
Chlorobenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		04/17/21 00:41	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		04/17/21 00:41	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		04/17/21 00:41	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		04/17/21 00:41	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		04/17/21 00:41	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		04/17/21 00:41	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		04/17/21 00:41	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		04/17/21 00:41	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		04/17/21 00:41	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		04/17/21 00:41	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		04/17/21 00:41	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 00:41	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 00:41	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 00:41	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 00:41	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 00:41	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 00:41	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 00:41	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 00:41	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 00:41	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		04/17/21 00:41	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		04/17/21 00:41	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		04/17/21 00:41	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		04/17/21 00:41	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		04/17/21 00:41	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	103-65-1	
Styrene	<0.50	ug/L	0.50		1		04/17/21 00:41	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/17/21 00:41	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/17/21 00:41	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		04/17/21 00:41	127-18-4	
Toluene	<0.50	ug/L	0.50		1		04/17/21 00:41	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		04/17/21 00:41		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		04/17/21 00:41	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		04/17/21 00:41	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		04/17/21 00:41	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		04/17/21 00:41	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		04/17/21 00:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		04/17/21 00:41	76-13-1	N3

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Sample: GAC-02052 Lab ID: 70168807006 Collected: 04/12/21 07:55 Received: 04/12/21 15:31 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									
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		04/17/21 00:41	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		04/17/21 00:41	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		04/17/21 00:41	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		04/17/21 00:41	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	80	%	70-130		1		04/17/21 00:41	2199-69-1	
4-Bromofluorobenzene (S)	89	%	70-130		1		04/17/21 00:41	460-00-4	
524.3 MSV SIM									
Analytical Method: EPA 524.3									
Pace Analytical Services - Melville									
1,2,3-Trichloropropane	<0.010	ug/L	0.010		1		04/16/21 01:18	96-18-4	
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010		1		04/16/21 01:18	106-93-4	
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1		04/16/21 01:18	96-12-8	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		04/16/21 01:18	2199-69-1	
tert Butyl Methyl-d3 Ether (S)	99	%	70-130		1		04/16/21 01:18	29366-08-3	
4-Bromofluorobenzene (S)	92	%	70-130		1		04/16/21 01:18	460-00-4	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
Perfluorobutanesulfonic acid	<1.8	ng/L	1.8		1	04/15/21 16:16	04/22/21 22:07	375-73-5	
Perfluoroheptanoic acid	<1.8	ng/L	1.8		1	04/15/21 16:16	04/22/21 22:07	375-85-9	
Perfluorohexanesulfonic acid	<1.8	ng/L	1.8		1	04/15/21 16:16	04/22/21 22:07	355-46-4	
Perfluorononanoic acid	<1.8	ng/L	1.8		1	04/15/21 16:16	04/22/21 22:07	375-95-1	
Perfluorooctanesulfonic acid	<1.8	ng/L	1.8		10	04/15/21 16:16	04/22/21 22:07	1763-23-1	
Perfluorooctanoic acid	<1.8	ng/L	1.8		10	04/15/21 16:16	04/22/21 22:07	335-67-1	
Surrogates									
13C2-PFDA (S)	101	%	70-130		1	04/15/21 16:16	04/22/21 22:07		
13C2-PFHxA (S)	96	%	70-130		1	04/15/21 16:16	04/22/21 22:07		
NEtFOSAA-d5 (S)	104	%	70-130		1	04/15/21 16:16	04/22/21 22:07		
HFPO-DAS (S)	70	%	70-130		1	04/15/21 16:16	04/22/21 22:07		
180.1 Turbidity									
Analytical Method: EPA 180.1									
Pace Analytical Services - Melville									
Turbidity	<1.0	NTU	1.0		1		04/13/21 15:52		
Wet Chemistry 314.0 Mod									
Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod									
Pace National - Mt. Juliet									
Perchlorate	<4.00	ug/L	4.00		1	04/16/21 02:18	04/16/21 02:18	14797-73-0	
2120B W Apparent Color									
Analytical Method: SM22 2120B									
Pace Analytical Services - Melville									
Apparent Color	<5.0	units	5.0		1		04/13/21 13:50		
pH	5.5	Std. Units	0.10		1		04/13/21 13:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Sample: GAC-02052		Lab ID: 70168807006		Collected: 04/12/21 07:55	Received: 04/12/21 15:31	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
2150B Threshold Odor Number									
Analytical Method: SM22 2150B Pace Analytical Services - Melville									
Odor @ 60 Degrees C	No odor observed		1.0		1		04/12/21 18:58		
2320B Alkalinity									
Analytical Method: SM22 2320B Pace Analytical Services - Melville									
Alkalinity, Total as CaCO3	16.6	mg/L	1.0		1		04/21/21 18:46		
2540C Total Dissolved Solids									
Analytical Method: SM22 2540C Pace Analytical Services - Melville									
Total Dissolved Solids	274	mg/L	20.0		1		04/15/21 10:51		
5540C MBAS Surfactants									
Analytical Method: SM22 5540C Preparation Method: SM22 5540C Pace Analytical Services - Melville									
LAS Molecular Weight, g/mol	320				1	04/13/21 18:00	04/13/21 18:00		
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	04/13/21 18:00	04/13/21 18:00		
Langelier Saturation Index									
Analytical Method: SM22 2330 LSI Pace Analytical Services - Melville									
Corrosivity	-3.88				1		04/26/21 16:49		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Melville									
Chloride	94.4	mg/L	2.0		1		04/20/21 22:30	16887-00-6	
Fluoride	<0.10	mg/L	0.10		1		04/20/21 22:30	16984-48-8	
Sulfate	11.2	mg/L	5.0		1		04/20/21 22:30	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrate as N	4.9	mg/L	0.25		5		04/12/21 23:20	14797-55-8	
Nitrate-Nitrite (as N)	4.9	mg/L	0.25		5		04/12/21 23:20	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		04/12/21 21:16	14797-65-0	
4500 Ammonia Water									
Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville									
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		04/22/21 16:05	7664-41-7	
Cyanide, Free									
Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville									
Cyanide, Free	<10.0	ug/L	10.0		1		04/16/21 09:42	57-12-5	

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ANALYTICAL RESULTS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Sample: NR-02052 **Lab ID: 70168807007** Collected: 04/12/21 08:12 Received: 04/12/21 15:31 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MBIO Total Coliform DW Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert
Pace Analytical Services - Melville

Total Coliforms	Absent				1	04/12/21 16:10	04/13/21 10:10		
E.coli	Absent				1	04/12/21 16:10	04/13/21 10:10		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

QC Batch: 204007 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET No Prep Drinking Water
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

METHOD BLANK: 1007005 Matrix: Drinking Water
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ca Hardness as CaCO3 (SM 2340B)	mg/L	<0.50	0.50	04/14/21 16:04	
Calcium	mg/L	<0.20	0.20	04/14/21 16:04	
Iron	mg/L	<0.020	0.020	04/14/21 16:04	
Magnesium	mg/L	<0.20	0.20	04/14/21 16:04	
Manganese	mg/L	<0.010	0.010	04/14/21 16:04	
Sodium	mg/L	<0.20	0.20	04/14/21 16:04	
Tot Hardness asCaCO3 (SM 2340B)	mg/L	<0.83	0.83	04/14/21 16:04	N3
Zinc	mg/L	<0.020	0.020	04/14/21 16:04	

LABORATORY CONTROL SAMPLE: 1007006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO3 (SM 2340B)	mg/L		62.4			
Calcium	mg/L	25	25.0	100	85-115	
Iron	mg/L	2	2.0	102	85-115	
Magnesium	mg/L	25	24.7	99	85-115	
Manganese	mg/L	0.25	0.25	101	85-115	
Sodium	mg/L	50	48.8	98	85-115	
Tot Hardness asCaCO3 (SM 2340B)	mg/L		164			N3
Zinc	mg/L	1	1.0	102	85-115	

MATRIX SPIKE SAMPLE: 1007008

Parameter	Units	70168885001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO3 (SM 2340B)	mg/L	44900 ug/L		113			
Calcium	mg/L	18000 ug/L	25	45.2	109	70-130	
Iron	mg/L	0.030	2	2.2	109	70-130	
Magnesium	mg/L	6460 ug/L	25	33.3	107	70-130	
Manganese	mg/L	<10.0 ug/L	0.25	0.28	110	70-130	
Sodium	mg/L	41600 ug/L	50	93.9	105	70-130	
Tot Hardness asCaCO3 (SM 2340B)	mg/L	71500 ug/L		250			N3
Zinc	mg/L	300 ug/L	1	1.4	110	70-130	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

MATRIX SPIKE SAMPLE: 1007010		70168885002	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Ca Hardness as CaCO3 (SM 2340B)	mg/L	37000 ug/L		107			
Calcium	mg/L	14800 ug/L	25	42.8	112	70-130	
Iron	mg/L	<0.020	2	2.3	114	70-130	
Magnesium	mg/L	3180 ug/L	25	31.2	112	70-130	
Manganese	mg/L	<10.0 ug/L	0.25	0.29	115	70-130	
Sodium	mg/L	62000 ug/L	50	116	108	70-130	
Tot Hardness asCaCO3 (SM 2340B)	mg/L	50100 ug/L		235			N3
Zinc	mg/L	296 ug/L	1	1.4	114	70-130	

SAMPLE DUPLICATE: 1007007		70168885001	Dup	RPD	Max	Qualifiers
Parameter	Units	Result	Result	RPD	RPD	
Ca Hardness as CaCO3 (SM 2340B)	mg/L	44900 ug/L	45.2	1	20	
Calcium	mg/L	18000 ug/L	18.1	1	20	
Iron	mg/L	0.030	0.026	16	20	
Magnesium	mg/L	6460 ug/L	6.4	1	20	
Manganese	mg/L	<10.0 ug/L	<0.010		20	
Sodium	mg/L	41600 ug/L	41.8	0	20	
Tot Hardness asCaCO3 (SM 2340B)	mg/L	71500 ug/L	71.5	0	20	N3
Zinc	mg/L	300 ug/L	0.29	2	20	

SAMPLE DUPLICATE: 1007009		70168885002	Dup	RPD	Max	Qualifiers
Parameter	Units	Result	Result	RPD	RPD	
Ca Hardness as CaCO3 (SM 2340B)	mg/L	37000 ug/L	37.0	0	20	
Calcium	mg/L	14800 ug/L	14.8	0	20	
Iron	mg/L	<0.020	<0.020		20	
Magnesium	mg/L	3180 ug/L	3.2	0	20	
Manganese	mg/L	<10.0 ug/L	<0.010		20	
Sodium	mg/L	62000 ug/L	62.4	1	20	
Tot Hardness asCaCO3 (SM 2340B)	mg/L	50100 ug/L	50.1	0	20	N3
Zinc	mg/L	296 ug/L	0.30	0	20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

QC Batch: 204659 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

METHOD BLANK: 1010657 Matrix: Water
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.40	0.40	04/20/21 11:58	
Arsenic	ug/L	<1.0	1.0	04/20/21 11:58	
Barium	mg/L	<0.0020	0.0020	04/20/21 11:58	
Beryllium	ug/L	<0.30	0.30	04/20/21 11:58	
Cadmium	ug/L	<1.0	1.0	04/20/21 11:58	
Chromium	mg/L	<0.0070	0.0070	04/20/21 11:58	
Copper	mg/L	<0.0020	0.0020	04/20/21 11:58	
Lead	ug/L	<1.0	1.0	04/20/21 11:58	
Mercury	ug/L	<0.20	0.20	04/20/21 11:58	
Nickel	mg/L	<0.00050	0.00050	04/20/21 11:58	
Selenium	ug/L	<2.0	2.0	04/20/21 11:58	
Silver	mg/L	<0.0010	0.0010	04/20/21 11:58	
Thallium	ug/L	<0.30	0.30	04/20/21 11:58	

LABORATORY CONTROL SAMPLE: 1010658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.3	97	85-115	
Arsenic	ug/L	50	47.1	94	85-115	
Barium	mg/L	0.05	0.048	95	85-115	
Beryllium	ug/L	50	49.1	98	85-115	
Cadmium	ug/L	50	47.2	94	85-115	
Chromium	mg/L	0.05	0.048	96	85-115	
Copper	mg/L	0.05	0.045	91	85-115	
Lead	ug/L	50	47.7	95	85-115	
Mercury	ug/L	1	0.94	94	85-115	
Nickel	mg/L	0.05	0.047	93	85-115	
Selenium	ug/L	50	48.2	96	85-115	
Silver	mg/L	0.025	0.024	95	85-115	
Thallium	ug/L	25	24.0	96	85-115	

MATRIX SPIKE SAMPLE: 1010660

Parameter	Units	70169104001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	<0.40	50	41.4	82	70-130	
Arsenic	ug/L	<1.0	50	43.3	87	70-130	
Barium	mg/L	0.0097	0.05	0.052	84	70-130	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

MATRIX SPIKE SAMPLE: 1010660		70169104001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Beryllium	ug/L	<0.30	50	44.5	89	70-130	
Cadmium	ug/L	<1.0	50	43.3	87	70-130	
Chromium	mg/L	<0.0070	0.05	0.045	89	70-130	
Copper	mg/L	0.042	0.05	0.084	85	70-130	
Lead	ug/L	2.5	50	48.8	92	70-130	
Mercury	ug/L	<0.20	0.04	<0.20	65	70-130	M1
Nickel	mg/L	0.0038	0.05	0.046	83	70-130	
Selenium	ug/L	<2.0	50	45.0	90	70-130	
Silver	mg/L	<0.0010	0.025	0.0079	31	70-130	M1
Thallium	ug/L	<0.30	25	22.8	91	70-130	

MATRIX SPIKE SAMPLE: 1010662		70168807004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	ug/L	<0.40	50	38.6	77	70-130	
Arsenic	ug/L	<1.0	50	40.4	81	70-130	
Barium	mg/L	0.034	0.05	0.072	77	70-130	
Beryllium	ug/L	<0.30	50	40.3	81	70-130	
Cadmium	ug/L	<1.0	50	39.4	79	70-130	
Chromium	mg/L	<0.0070	0.05	0.042	82	70-130	
Copper	mg/L	0.033	0.05	0.072	79	70-130	
Lead	ug/L	<1.0	50	41.1	82	70-130	
Mercury	ug/L	<0.20	0.04	<0.20	72	70-130	
Nickel	mg/L	0.0012	0.05	0.039	75	70-130	
Selenium	ug/L	<2.0	50	43.1	83	70-130	
Silver	mg/L	<0.0010	0.025	0.0066	26	70-130	M1
Thallium	ug/L	<0.30	25	20.6	82	70-130	

SAMPLE DUPLICATE: 1010659

Parameter	Units	70169104001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
Antimony	ug/L	<0.40	<0.40		20	
Arsenic	ug/L	<1.0	<1.0		20	
Barium	mg/L	0.0097	0.0097	0	20	
Beryllium	ug/L	<0.30	<0.30		20	
Cadmium	ug/L	<1.0	<1.0		20	
Chromium	mg/L	<0.0070	<0.0070		20	
Copper	mg/L	0.042	0.042	0	20	
Lead	ug/L	2.5	2.5	2	20	
Mercury	ug/L	<0.20	<0.20		20	
Nickel	mg/L	0.0038	0.0038	0	20	
Selenium	ug/L	<2.0	<2.0		20	
Silver	mg/L	<0.0010	<0.0010		20	
Thallium	ug/L	<0.30	<0.30		20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

SAMPLE DUPLICATE: 1010661

Parameter	Units	70168807004 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	<0.40	<0.40		20	
Arsenic	ug/L	<1.0	<1.0		20	
Barium	mg/L	0.034	0.033	1	20	
Beryllium	ug/L	<0.30	<0.30		20	
Cadmium	ug/L	<1.0	<1.0		20	
Chromium	mg/L	<0.0070	<0.0070		20	
Copper	mg/L	0.033	0.033	0	20	
Lead	ug/L	<1.0	<1.0		20	
Mercury	ug/L	<0.20	<0.20		20	
Nickel	mg/L	0.0012	0.0013	9	20	
Selenium	ug/L	<2.0	<2.0		20	
Silver	mg/L	<0.0010	<0.0010		20	
Thallium	ug/L	<0.30	<0.30		20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch: 203835

Analysis Method: SM22 9223B Colilert

QC Batch Method: SM22 9223B Colilert

Analysis Description: TotColDW MBIO Total Coliform

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70168807001, 70168807005, 70168807007

METHOD BLANK: 1005572

Matrix: Drinking Water

Associated Lab Samples: 70168807001, 70168807005, 70168807007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
E.coli		Absent		04/13/21 10:10	
Total Coliforms		Absent		04/13/21 10:10	

SAMPLE DUPLICATE: 1005573

Parameter	Units	70168802001 Result	Dup Result	RPD	Max RPD	Qualifiers
E.coli		Absent	Absent			
Total Coliforms		Absent	Absent			

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch: 203878

Analysis Method: SM22 9223B Colilert

QC Batch Method: SM22 9223B Colilert

Analysis Description: TotColDW MBIO Total Coliform

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70168807003

METHOD BLANK: 1006043

Matrix: Drinking Water

Associated Lab Samples: 70168807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
E.coli		Absent		04/13/21 10:10	
Total Coliforms		Absent		04/13/21 10:10	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch: 204524

Analysis Method: EPA 524.2

QC Batch Method: EPA 524.2

Analysis Description: 524.2 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

METHOD BLANK: 1009542

Matrix: Water

Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	04/16/21 15:15	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
1,1-Dichloroethene	ug/L	<0.50	0.50	04/16/21 15:15	
1,1-Dichloropropane	ug/L	<0.50	0.50	04/16/21 15:15	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	04/16/21 15:15	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
1,2-Dichloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
1,2-Dichloropropane	ug/L	<0.50	0.50	04/16/21 15:15	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
1,3-Dichloropropane	ug/L	<0.50	0.50	04/16/21 15:15	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
2,2-Dichloropropane	ug/L	<0.50	0.50	04/16/21 15:15	
2-Chlorotoluene	ug/L	<0.50	0.50	04/16/21 15:15	
4-Chlorotoluene	ug/L	<0.50	0.50	04/16/21 15:15	
Benzene	ug/L	<0.50	0.50	04/16/21 15:15	
Bromobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
Bromochloromethane	ug/L	<0.50	0.50	04/16/21 15:15	
Bromodichloromethane	ug/L	<0.50	0.50	04/16/21 15:15	
Bromoform	ug/L	<0.50	0.50	04/16/21 15:15	
Bromomethane	ug/L	<0.50	0.50	04/16/21 15:15	
Carbon tetrachloride	ug/L	<0.50	0.50	04/16/21 15:15	
Chlorobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
Chlorodifluoromethane	ug/L	<0.50	0.50	04/16/21 15:15	N3
Chloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
Chloroform	ug/L	<0.50	0.50	04/16/21 15:15	
Chloromethane	ug/L	<0.50	0.50	04/16/21 15:15	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	04/16/21 15:15	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	04/16/21 15:15	
Dibromochloromethane	ug/L	<0.50	0.50	04/16/21 15:15	
Dibromomethane	ug/L	<0.50	0.50	04/16/21 15:15	
Dichlorodifluoromethane	ug/L	<0.50	0.50	04/16/21 15:15	
Ethylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

METHOD BLANK: 1009542

Matrix: Water

Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	04/16/21 15:15	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	04/16/21 15:15	
m&p-Xylene	ug/L	<0.50	0.50	04/16/21 15:15	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	04/16/21 15:15	
Methylene Chloride	ug/L	<0.50	0.50	04/16/21 15:15	
n-Butylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	
n-Propylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	
o-Xylene	ug/L	<0.50	0.50	04/16/21 15:15	
p-Isopropyltoluene	ug/L	<0.50	0.50	04/16/21 15:15	
sec-Butylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	
Styrene	ug/L	<0.50	0.50	04/16/21 15:15	
tert-Butylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	
Tetrachloroethene	ug/L	<0.50	0.50	04/16/21 15:15	
Toluene	ug/L	<0.50	0.50	04/16/21 15:15	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	04/16/21 15:15	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	04/16/21 15:15	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	04/16/21 15:15	
Trichloroethene	ug/L	<0.50	0.50	04/16/21 15:15	
Trichlorofluoromethane	ug/L	<0.50	0.50	04/16/21 15:15	
Vinyl chloride	ug/L	<0.50	0.50	04/16/21 15:15	
1,2-Dichlorobenzene-d4 (S)	%	92	70-130	04/16/21 15:15	
4-Bromofluorobenzene (S)	%	92	70-130	04/16/21 15:15	

LABORATORY CONTROL SAMPLE: 1009543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.2	92	70-130	
1,1,1-Trichloroethane	ug/L	10	9.2	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	9.5	95	70-130	
1,1,2-Trichloroethane	ug/L	10	9.6	96	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	10.4	104	70-130	N3
1,1-Dichloroethane	ug/L	10	8.9	89	70-130	
1,1-Dichloroethene	ug/L	10	9.5	95	70-130	
1,1-Dichloropropene	ug/L	10	9.6	96	70-130	
1,2,3-Trichlorobenzene	ug/L	10	8.4	84	70-130	
1,2,3-Trichloropropane	ug/L	10	9.7	97	70-130	
1,2,4-Trichlorobenzene	ug/L	10	8.7	87	70-130	
1,2,4-Trimethylbenzene	ug/L	10	9.8	98	70-130	
1,2-Dichlorobenzene	ug/L	10	9.4	94	70-130	
1,2-Dichloroethane	ug/L	10	9.4	94	70-130	
1,2-Dichloropropane	ug/L	10	9.2	92	70-130	
1,3,5-Trimethylbenzene	ug/L	10	9.2	92	70-130	
1,3-Dichlorobenzene	ug/L	10	9.5	95	70-130	
1,3-Dichloropropane	ug/L	10	9.3	93	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

LABORATORY CONTROL SAMPLE: 1009543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	9.5	95	70-130	
2,2-Dichloropropane	ug/L	10	8.9	89	70-130	
2-Chlorotoluene	ug/L	10	9.1	91	70-130	
4-Chlorotoluene	ug/L	10	9.4	94	70-130	
Benzene	ug/L	10	9.1	91	70-130	
Bromobenzene	ug/L	10	9.3	93	70-130	
Bromochloromethane	ug/L	10	8.8	88	70-130	
Bromodichloromethane	ug/L	10	9.1	91	70-130	
Bromoform	ug/L	10	9.4	94	70-130	
Bromomethane	ug/L	10	8.8	88	70-130	
Carbon tetrachloride	ug/L	10	9.2	92	70-130	
Chlorobenzene	ug/L	10	9.5	95	70-130	
Chlorodifluoromethane	ug/L	10	8.9	89	70-130	N3
Chloroethane	ug/L	10	8.1	81	70-130	
Chloroform	ug/L	10	9.5	95	70-130	
Chloromethane	ug/L	10	8.0	80	70-130	
cis-1,2-Dichloroethene	ug/L	10	8.8	88	70-130	
cis-1,3-Dichloropropene	ug/L	10	10	100	70-130	
Dibromochloromethane	ug/L	10	9.4	94	70-130	
Dibromomethane	ug/L	10	9.6	96	70-130	
Dichlorodifluoromethane	ug/L	10	9.9	99	70-130	
Ethylbenzene	ug/L	10	9.5	95	70-130	
Hexachloro-1,3-butadiene	ug/L	10	9.8	98	70-130	
Isopropylbenzene (Cumene)	ug/L	10	9.3	93	70-130	
m&p-Xylene	ug/L	20	18.5	92	70-130	
Methyl-tert-butyl ether	ug/L	10	10.7	107	70-130	IH
Methylene Chloride	ug/L	10	8.5	85	70-130	
n-Butylbenzene	ug/L	10	9.2	92	70-130	
n-Propylbenzene	ug/L	10	9.9	99	70-130	
o-Xylene	ug/L	10	9.4	94	70-130	
p-Isopropyltoluene	ug/L	10	9.7	97	70-130	
sec-Butylbenzene	ug/L	10	9.5	95	70-130	
Styrene	ug/L	10	10	100	70-130	
tert-Butylbenzene	ug/L	10	9.3	93	70-130	
Tetrachloroethene	ug/L	10	9.2	92	70-130	
Toluene	ug/L	10	9.4	94	70-130	
Total Trihalomethanes (Calc.)	ug/L		37.3			
trans-1,2-Dichloroethene	ug/L	10	8.8	88	70-130	
trans-1,3-Dichloropropene	ug/L	10	9.6	96	70-130	
Trichloroethene	ug/L	10	9.3	93	70-130	
Trichlorofluoromethane	ug/L	10	9.6	96	70-130	
Vinyl chloride	ug/L	10	9.3	93	70-130	
1,2-Dichlorobenzene-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch: 204384	Analysis Method: EPA 524.3
QC Batch Method: EPA 524.3	Analysis Description: 524.3 MSV
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70168807005, 70168807006

METHOD BLANK: 1008881 Matrix: Water

Associated Lab Samples: 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,3-Trichloropropane	ug/L	<0.010	0.010	04/15/21 20:10	
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.010	04/15/21 20:10	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.010	04/15/21 20:10	
1,2-Dichlorobenzene-d4 (S)	%	94	70-130	04/15/21 20:10	
4-Bromofluorobenzene (S)	%	102	70-130	04/15/21 20:10	
tert Butyl Methyl-d3 Ether (S)	%	98	70-130	04/15/21 20:10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1009458 1009459

Parameter	Units	70168516001		1009458		1009459		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1,2,3-Trichloropropane	ug/L	<0.010	0.05	0.05	0.050	0.047	101	93	70-130	7	30			
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.05	0.05	0.049	0.050	98	99	70-130	2	30			
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.05	0.05	0.047	0.046	93	91	70-130	2	30			
1,2-Dichlorobenzene-d4 (S)	%						99	99	70-130					
4-Bromofluorobenzene (S)	%						99	98	70-130					
tert Butyl Methyl-d3 Ether (S)	%						100	98	70-130					

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch:	204971	Analysis Method:	EPA 522
QC Batch Method:	EPA 522	Analysis Description:	522 MSS 1,4 Dioxane
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70168807001, 70168807002, 70168807005, 70168807006

METHOD BLANK: 1013835 Matrix: Drinking Water

Associated Lab Samples: 70168807001, 70168807002, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	04/21/21 18:56	
1,4-Dioxane-d8 (S)	%	89	70-130	04/21/21 18:56	

LABORATORY CONTROL SAMPLE: 1013836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	<0.020	98	70-130	
1,4-Dioxane-d8 (S)	%			89	70-130	

MATRIX SPIKE SAMPLE: 1013837

Parameter	Units	70168805002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	6.7	0.02	6.1	-2690	70-130	E,M1
1,4-Dioxane-d8 (S)	%				91	70-130	

SAMPLE DUPLICATE: 1013838

Parameter	Units	70168805003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.22	0.22	3	20	
1,4-Dioxane-d8 (S)	%	87	90		20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch:	721414	Analysis Method:	EPA 537.1
QC Batch Method:	EPA 537.1	Analysis Description:	537.1 PFOA Compounds, Water
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70168807001, 70168807002, 70168807005, 70168807006

METHOD BLANK: 3931789 Matrix: Water

Associated Lab Samples: 70168807001, 70168807002, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	04/22/21 19:02	
Perfluoroheptanoic acid	ng/L	ND	2.0	04/22/21 19:02	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	04/22/21 19:02	
Perfluorononanoic acid	ng/L	ND	2.0	04/22/21 19:02	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	04/22/21 19:02	
Perfluorooctanoic acid	ng/L	ND	2.0	04/22/21 19:02	
13C2-PFDA (S)	%	108	70-130	04/22/21 19:02	
13C2-PFHxA (S)	%	101	70-130	04/22/21 19:02	
HFPO-DAS (S)	%	93	70-130	04/22/21 19:02	
NETFOSAA-d5 (S)	%	108	70-130	04/22/21 19:02	

LABORATORY CONTROL SAMPLE: 3931790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	6.3	89	70-130	
Perfluoroheptanoic acid	ng/L	8	9.0	112	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.5	103	70-130	
Perfluorononanoic acid	ng/L	8	9.0	112	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	7.1	96	70-130	
Perfluorooctanoic acid	ng/L	8	8.3	104	70-130	
13C2-PFDA (S)	%			112	70-130	
13C2-PFHxA (S)	%			105	70-130	
HFPO-DAS (S)	%			94	70-130	
NETFOSAA-d5 (S)	%			113	70-130	

LABORATORY CONTROL SAMPLE: 3931791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.7J	95	50-150	
Perfluoroheptanoic acid	ng/L	2	2.3	116	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	2.0	110	50-150	
Perfluorononanoic acid	ng/L	2	2.5	124	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.6J	86	50-150	
Perfluorooctanoic acid	ng/L	2	2.4	118	50-150	
13C2-PFDA (S)	%			107	70-130	
13C2-PFHxA (S)	%			103	70-130	
HFPO-DAS (S)	%			90	70-130	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

LABORATORY CONTROL SAMPLE: 3931791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NETFOSAA-d5 (S)	%			106	70-130	

MATRIX SPIKE SAMPLE: 3931792

Parameter	Units	70168809002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.0	138	130	94	70-130	
Perfluoroheptanoic acid	ng/L	<2.0	156	153	97	70-130	
Perfluorohexanesulfonic acid	ng/L	<2.0	142	141	99	70-130	
Perfluorononanoic acid	ng/L	<2.0	156	161	103	70-130	
Perfluorooctanesulfonic acid	ng/L	3.2	144	140	95	70-130	
Perfluorooctanoic acid	ng/L	4.5	156	155	97	70-130	
13C2-PFDA (S)	%				102	70-130	
13C2-PFHxA (S)	%				96	70-130	
HFPO-DAS (S)	%				76	70-130	
NETFOSAA-d5 (S)	%				103	70-130	

SAMPLE DUPLICATE: 3931793

Parameter	Units	70168807006 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluoroheptanoic acid	ng/L	<1.8	<1.9		30	
Perfluorohexanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluorononanoic acid	ng/L	<1.8	<1.9		30	
Perfluorooctanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluorooctanoic acid	ng/L	<1.8	<1.9		30	
13C2-PFDA (S)	%	101	100			
13C2-PFHxA (S)	%	96	95			
HFPO-DAS (S)	%	70	74			
NETFOSAA-d5 (S)	%	104	106			

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch: 203883

Analysis Method: EPA 180.1

QC Batch Method: EPA 180.1

Analysis Description: 180.1 Turbidity

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

METHOD BLANK: 1006179

Matrix: Water

Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	04/13/21 15:46	

LABORATORY CONTROL SAMPLE: 1006180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	10	9.9	99	90-110	

SAMPLE DUPLICATE: 1006181

Parameter	Units	70168807005 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	<1.0	<1.0		20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch:	1651325	Analysis Method:	EPA 314.0
QC Batch Method:	314.0 Mod	Analysis Description:	Wet Chemistry 314.0 Mod
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

METHOD BLANK: R3643407-1 Matrix: Water
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perchlorate	ug/L	<4.00	4.00	04/15/21 11:12	

LABORATORY CONTROL SAMPLE: R3643407-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perchlorate	ug/L	10.0	9.20	92.0	90.0-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3643407-4 R3643407-5

Parameter	Units	R3643407-4		R3643407-5		% Rec Limits	RPD	Max RPD	Qual		
		L1337633-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					MSD Result	
Perchlorate	ug/L	ND	10.0	10.0	8.99	9.73	89.9	97.3	80.0-120	7.91	15

SAMPLE DUPLICATE: R3643407-3

Parameter	Units	L1337014-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Perchlorate	ug/L	ND	<4.00	0.00	15	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch: 203880

Analysis Method: SM22 2120B

QC Batch Method: SM22 2120B

Analysis Description: 2120B Color

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

METHOD BLANK: 1006093

Matrix: Water

Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Apparent Color	units	<5.0	5.0	04/13/21 13:50	

LABORATORY CONTROL SAMPLE: 1006094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Apparent Color	units	40	40.0	100	90-110	

SAMPLE DUPLICATE: 1006095

Parameter	Units	70168807006 Result	Dup Result	RPD	Max RPD	Qualifiers
Apparent Color	units	<5.0	<5.0		20	
pH	Std. Units	5.5	5.5	0	10	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch: 203746

Analysis Method: SM22 2150B

QC Batch Method: SM22 2150B

Analysis Description: 2150B Threshold Odor Number

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

METHOD BLANK: 1005319

Matrix: Drinking Water

Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Odor @ 60 Degrees C		No odor	1.0	04/12/21 18:58	

SAMPLE DUPLICATE: 1005320

Parameter	Units	70168807004 Result	Dup Result	RPD	Max RPD	Qualifiers
Odor @ 60 Degrees C		No odor observed	No odor		20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

QC Batch: 204919 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70168807001

METHOD BLANK: 1013306 Matrix: Water
Associated Lab Samples: 70168807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	04/20/21 16:15	

LABORATORY CONTROL SAMPLE: 1013307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.3	101	85-115	

MATRIX SPIKE SAMPLE: 1013343

Parameter	Units	70168757001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	182	50	231	98	75-125	

SAMPLE DUPLICATE: 1013342

Parameter	Units	70168757001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	182	177	3	20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

QC Batch: 205158 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

METHOD BLANK: 1014530 Matrix: Water
Associated Lab Samples: 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	04/21/21 17:43	

LABORATORY CONTROL SAMPLE: 1014531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	26.1	104	85-115	

MATRIX SPIKE SAMPLE: 1014533

Parameter	Units	70168807002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	55.4	50	105	100	75-125	

SAMPLE DUPLICATE: 1014532

Parameter	Units	70168807002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	55.4	54.2	2	20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

QC Batch: 204192 Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

METHOD BLANK: 1007920 Matrix: Water
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/15/21 10:31	

LABORATORY CONTROL SAMPLE: 1007921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	538	108	85-115	

MATRIX SPIKE SAMPLE: 1007923

Parameter	Units	70168807001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L		236	300	513	92	75-125

MATRIX SPIKE SAMPLE: 1007925

Parameter	Units	70169104001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L		114	300	376	87	75-125

SAMPLE DUPLICATE: 1007922

Parameter	Units	70168807001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	236	231	2	5	

SAMPLE DUPLICATE: 1007924

Parameter	Units	70169104001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	114	105	8	5	D6

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

QC Batch: 203884 Analysis Method: SM22 5540C
QC Batch Method: SM22 5540C Analysis Description: 5540C MBAS Surfactants
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

METHOD BLANK: 1006187 Matrix: Water
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
LAS Molecular Weight, g/mol		320		04/13/21 18:00	
MBAS, Calculated as LAS	mg/L	ND	0.080	04/13/21 18:00	

LABORATORY CONTROL SAMPLE: 1006188

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
LAS Molecular Weight, g/mol			320			
MBAS, Calculated as LAS	mg/L	0.24	0.24	99	85-115	

MATRIX SPIKE SAMPLE: 1006189

Parameter	Units	70168807006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
LAS Molecular Weight, g/mol				320			
MBAS, Calculated as LAS	mg/L	<0.080	0.24	0.22	92	75-125	

SAMPLE DUPLICATE: 1006190

Parameter	Units	70168807006 Result	Dup Result	RPD	Max RPD	Qualifiers
LAS Molecular Weight, g/mol		320	320			
MBAS, Calculated as LAS	mg/L	<0.080	<0.080		20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

QC Batch: 204937 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

METHOD BLANK: 1013458 Matrix: Water
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	04/20/21 19:47	
Fluoride	mg/L	<0.10	0.10	04/20/21 19:47	
Sulfate	mg/L	<5.0	5.0	04/20/21 19:47	

LABORATORY CONTROL SAMPLE: 1013459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.7	97	90-110	
Fluoride	mg/L	1	1.0	101	90-110	
Sulfate	mg/L	10	9.8	98	90-110	

MATRIX SPIKE SAMPLE: 1013460

Parameter	Units	70168807002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	49.9	10	59.7	98	90-110	
Fluoride	mg/L	<0.10	1	1.0	96	90-110	
Sulfate	mg/L	38.6	10	48.2	97	90-110	

MATRIX SPIKE SAMPLE: 1013462

Parameter	Units	70169372005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	16.6	10	26.5	100	90-110	
Fluoride	mg/L	<0.10	1	1.1	105	90-110	
Sulfate	mg/L	23.6	10	33.4	98	90-110	

SAMPLE DUPLICATE: 1013461

Parameter	Units	70168807002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	49.9	50.2	1	15	
Fluoride	mg/L	<0.10	<0.10		15	
Sulfate	mg/L	38.6	38.8	1	15	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

SAMPLE DUPLICATE: 1013463

Parameter	Units	70169372005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	16.6	16.5	0	15	
Fluoride	mg/L	<0.10	<0.10		15	
Sulfate	mg/L	23.6	23.6	0	15	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch:	203754	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70168807001, 70168807002, 70168807003

METHOD BLANK: 1005378 Matrix: Water

Associated Lab Samples: 70168807001, 70168807002, 70168807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.050	04/12/21 20:33	

LABORATORY CONTROL SAMPLE: 1005379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 1005380

Parameter	Units	70168804001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	100	90-110	

MATRIX SPIKE SAMPLE: 1005382

Parameter	Units	70168781001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.49	98	90-110	

SAMPLE DUPLICATE: 1005381

Parameter	Units	70168804001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 1005383

Parameter	Units	70168781001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch:	203755	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70168807004, 70168807005, 70168807006

METHOD BLANK: 1005384 Matrix: Water

Associated Lab Samples: 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.050	04/12/21 21:11	

LABORATORY CONTROL SAMPLE: 1005385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 1005386

Parameter	Units	70168771001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	100	90-110	

SAMPLE DUPLICATE: 1005387

Parameter	Units	70168771001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

QC Batch: 203757 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: 70168807001, 70168807002, 70168807003

METHOD BLANK: 1005394 Matrix: Water
Associated Lab Samples: 70168807001, 70168807002, 70168807003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.050	04/12/21 22:31	

LABORATORY CONTROL SAMPLE: 1005395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 1005396

Parameter	Units	70168804001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	8.6	2.5	10.7	85	90-110	M1

MATRIX SPIKE SAMPLE: 1005398

Parameter	Units	70168756001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.5	0.49	98	90-110	

SAMPLE DUPLICATE: 1005397

Parameter	Units	70168804001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	8.6	8.5	0	20	

SAMPLE DUPLICATE: 1005399

Parameter	Units	70168756001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

QC Batch: 203758 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: 70168807004, 70168807005, 70168807006

METHOD BLANK: 1005400 Matrix: Water
Associated Lab Samples: 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.050	04/12/21 23:15	

LABORATORY CONTROL SAMPLE: 1005401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE: 1005402

Parameter	Units	70168771001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	6.2	2.5	8.7	102	90-110	

SAMPLE DUPLICATE: 1005403

Parameter	Units	70168771001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	6.2	6.2	0	20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

QC Batch: 205288 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005

METHOD BLANK: 1015361 Matrix: Water
Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/22/21 15:29	

LABORATORY CONTROL SAMPLE: 1015362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	104	90-110	

MATRIX SPIKE SAMPLE: 1015363

Parameter	Units	70168807003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	1	1.1	101	75-125	

SAMPLE DUPLICATE: 1015364

Parameter	Units	70168807003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	<0.10		20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

QC Batch: 205289	Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H	Analysis Description: 4500 Ammonia
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70168807006

METHOD BLANK: 1015365 Matrix: Water
Associated Lab Samples: 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/22/21 16:03	

LABORATORY CONTROL SAMPLE: 1015366

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	105	90-110	

MATRIX SPIKE SAMPLE: 1015367

Parameter	Units	70169370001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	17.1	10	27.0	99	75-125	

SAMPLE DUPLICATE: 1015368

Parameter	Units	70169370001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	17.1	15.9	7	20	

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QUALITY CONTROL DATA

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

QC Batch: 204191 Analysis Method: ASTM D7237-10
 QC Batch Method: ASTM D7237-10 Analysis Description: Cyanide, Free
 Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

METHOD BLANK: 1007916 Matrix: Drinking Water
 Associated Lab Samples: 70168807001, 70168807002, 70168807003, 70168807004, 70168807005, 70168807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Free	ug/L	<10.0	10.0	04/16/21 08:36	

LABORATORY CONTROL SAMPLE: 1007917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Free	ug/L	100	104	104	85-114	

MATRIX SPIKE SAMPLE: 1007918

Parameter	Units	70168640001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide, Free	ug/L	<10.0	50	<10.0	0	79-121	M1

SAMPLE DUPLICATE: 1007919

Parameter	Units	70168640001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Free	ug/L	<10.0	<10.0		20	

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QUALIFIERS

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

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

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70168807001	N-09809	EPA 200.7	204007		
70168807002	GAC-09809	EPA 200.7	204007		
70168807003	N-02030	EPA 200.7	204007		
70168807004	GAC-02030	EPA 200.7	204007		
70168807005	N-02052	EPA 200.7	204007		
70168807006	GAC-02052	EPA 200.7	204007		
70168807001	N-09809	EPA 200.8	204659		
70168807002	GAC-09809	EPA 200.8	204659		
70168807003	N-02030	EPA 200.8	204659		
70168807004	GAC-02030	EPA 200.8	204659		
70168807005	N-02052	EPA 200.8	204659		
70168807006	GAC-02052	EPA 200.8	204659		
70168807001	N-09809	SM22 9223B Colilert	203835	SM22 9223B Colilert	203875
70168807003	N-02030	SM22 9223B Colilert	203878	SM22 9223B Colilert	203888
70168807005	N-02052	SM22 9223B Colilert	203835	SM22 9223B Colilert	203875
70168807007	NR-02052	SM22 9223B Colilert	203835	SM22 9223B Colilert	203875
70168807001	N-09809	EPA 522	204971	EPA 522	205144
70168807002	GAC-09809	EPA 522	204971	EPA 522	205144
70168807005	N-02052	EPA 522	204971	EPA 522	205144
70168807006	GAC-02052	EPA 522	204971	EPA 522	205144
70168807001	N-09809	EPA 524.2	204524		
70168807002	GAC-09809	EPA 524.2	204524		
70168807003	N-02030	EPA 524.2	204524		
70168807004	GAC-02030	EPA 524.2	204524		
70168807005	N-02052	EPA 524.2	204524		
70168807006	GAC-02052	EPA 524.2	204524		
70168807005	N-02052	EPA 524.3	204384		
70168807006	GAC-02052	EPA 524.3	204384		
70168807001	N-09809	EPA 537.1	721414	EPA 537.1	722111
70168807002	GAC-09809	EPA 537.1	721414	EPA 537.1	722111
70168807005	N-02052	EPA 537.1	721414	EPA 537.1	722111
70168807006	GAC-02052	EPA 537.1	721414	EPA 537.1	722111
70168807001	N-09809	EPA 180.1	203883		
70168807002	GAC-09809	EPA 180.1	203883		
70168807003	N-02030	EPA 180.1	203883		
70168807004	GAC-02030	EPA 180.1	203883		
70168807005	N-02052	EPA 180.1	203883		
70168807006	GAC-02052	EPA 180.1	203883		
70168807001	N-09809	314.0 Mod	1651325	EPA 314.0	1651325
70168807002	GAC-09809	314.0 Mod	1651325	EPA 314.0	1651325
70168807003	N-02030	314.0 Mod	1651325	EPA 314.0	1651325
70168807004	GAC-02030	314.0 Mod	1651325	EPA 314.0	1651325
70168807005	N-02052	314.0 Mod	1651325	EPA 314.0	1651325
70168807006	GAC-02052	314.0 Mod	1651325	EPA 314.0	1651325

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12

Pace Project No.: 70168807

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70168807001	N-09809	SM22 2120B	203880		
70168807002	GAC-09809	SM22 2120B	203880		
70168807003	N-02030	SM22 2120B	203880		
70168807004	GAC-02030	SM22 2120B	203880		
70168807005	N-02052	SM22 2120B	203880		
70168807006	GAC-02052	SM22 2120B	203880		
70168807001	N-09809	SM22 2150B	203746		
70168807002	GAC-09809	SM22 2150B	203746		
70168807003	N-02030	SM22 2150B	203746		
70168807004	GAC-02030	SM22 2150B	203746		
70168807005	N-02052	SM22 2150B	203746		
70168807006	GAC-02052	SM22 2150B	203746		
70168807001	N-09809	SM22 2320B	204919		
70168807002	GAC-09809	SM22 2320B	205158		
70168807003	N-02030	SM22 2320B	205158		
70168807004	GAC-02030	SM22 2320B	205158		
70168807005	N-02052	SM22 2320B	205158		
70168807006	GAC-02052	SM22 2320B	205158		
70168807001	N-09809	SM22 2540C	204192		
70168807002	GAC-09809	SM22 2540C	204192		
70168807003	N-02030	SM22 2540C	204192		
70168807004	GAC-02030	SM22 2540C	204192		
70168807005	N-02052	SM22 2540C	204192		
70168807006	GAC-02052	SM22 2540C	204192		
70168807001	N-09809	SM22 5540C	203884	SM22 5540C	204131
70168807002	GAC-09809	SM22 5540C	203884	SM22 5540C	204131
70168807003	N-02030	SM22 5540C	203884	SM22 5540C	204131
70168807004	GAC-02030	SM22 5540C	203884	SM22 5540C	204131
70168807005	N-02052	SM22 5540C	203884	SM22 5540C	204131
70168807006	GAC-02052	SM22 5540C	203884	SM22 5540C	204131
70168807001	N-09809	SM22 2330 LSI	205811		
70168807002	GAC-09809	SM22 2330 LSI	205811		
70168807003	N-02030	SM22 2330 LSI	205811		
70168807004	GAC-02030	SM22 2330 LSI	205811		
70168807005	N-02052	SM22 2330 LSI	205811		
70168807006	GAC-02052	SM22 2330 LSI	205811		
70168807001	N-09809	EPA 300.0	204937		
70168807002	GAC-09809	EPA 300.0	204937		
70168807003	N-02030	EPA 300.0	204937		
70168807004	GAC-02030	EPA 300.0	204937		
70168807005	N-02052	EPA 300.0	204937		
70168807006	GAC-02052	EPA 300.0	204937		
70168807001	N-09809	EPA 353.2	203757		
70168807002	GAC-09809	EPA 353.2	203757		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BAC/POC/PFAS/1,4 DIOX/IOC 4/12
Pace Project No.: 70168807

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70168807003	N-02030	EPA 353.2	203757		
70168807004	GAC-02030	EPA 353.2	203758		
70168807005	N-02052	EPA 353.2	203758		
70168807006	GAC-02052	EPA 353.2	203758		
70168807001	N-09809	EPA 353.2	203754		
70168807002	GAC-09809	EPA 353.2	203754		
70168807003	N-02030	EPA 353.2	203754		
70168807004	GAC-02030	EPA 353.2	203755		
70168807005	N-02052	EPA 353.2	203755		
70168807006	GAC-02052	EPA 353.2	203755		
70168807001	N-09809	SM22 4500 NH3 H	205288		
70168807002	GAC-09809	SM22 4500 NH3 H	205288		
70168807003	N-02030	SM22 4500 NH3 H	205288		
70168807004	GAC-02030	SM22 4500 NH3 H	205288		
70168807005	N-02052	SM22 4500 NH3 H	205288		
70168807006	GAC-02052	SM22 4500 NH3 H	205289		
70168807001	N-09809	ASTM D7237-10	204191		
70168807002	GAC-09809	ASTM D7237-10	204191		
70168807003	N-02030	ASTM D7237-10	204191		
70168807004	GAC-02030	ASTM D7237-10	204191		
70168807005	N-02052	ASTM D7237-10	204191		
70168807006	GAC-02052	ASTM D7237-10	204191		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 70168807
 PM: JSA Due Date: 04/21/21
 CLIENT: PWW

Client Name: PWW

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): 2.7 Cooler Temperature Corrected(°C): 2.7

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 _____

Temp should be above freezing to 6.0°C
 USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: 4/14/21 JP

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No
 Did samples originate from a foreign source including Hawaii and Puerto Rico)? Yes No
 If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID, Matrix: SL <u>(WI)</u> OIL		
All containers needing preservation have been checked?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
pH paper Lot # <u>MC025486</u>		
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample #
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:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
KI starch test strips Lot # _____		
Residual chlorine strips Lot # _____		Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Lead Acetate Strips Lot # _____		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable): _____		

Field Data Required? Y / N
 Date/Time: _____

Client Notification/ Resolution: _____
 Person Contacted: _____
 Comments/ Resolution: _____

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

April 28, 2021

Supt. Tal Vacchio
Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050

RE: Project: 1,4 DIOXANE/PFAS 4/12
Pace Project No.: 70168805

Dear Supt. Tal Vacchio:

Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 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
Jim Van Horn
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Lisa Ortiz, D&B
Xavier Sardoni, D&B Engineers
Jasper Skliba, Port Washington W.D.
Reports User, Port Washington W.D.
Richard Zimbardi, Port Washington W.D.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1,4 DIOXANE/PFAS 4/12
Pace Project No.: 70168805

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236

Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Delaware Certification # NY10478
Delaware Certification # NY10478
Virginia Certification # 460302
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 4/12

Pace Project No.: 70168805

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70168805001	N-07551	Drinking Water	04/12/21 09:51	04/12/21 15:31
70168805002	N-07552	Drinking Water	04/12/21 10:10	04/12/21 15:31
70168805003	N-13510	Drinking Water	04/12/21 10:32	04/12/21 15:31
70168805004	AS-9/8/11	Drinking Water	04/12/21 09:43	04/12/21 15:31

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 4/12

Pace Project No.: 70168805

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70168805001	N-07551	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70168805002	N-07552	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70168805003	N-13510	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70168805004	AS-9/8/11	EPA 522	TJD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	CMB	9	PASI-O

PACE-MV = Pace Analytical Services - Melville

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/12
Pace Project No.: 70168805

Sample: N-07551 **Lab ID: 70168805001** **Collected: 04/12/21 09:51** Received: 04/12/21 15:31 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.37	ug/L	0.020		1	04/20/21 09:51	04/21/21 18:23	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	85	%	70-130		1	04/20/21 09:51	04/21/21 18:23		
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	04/16/21 11:12	04/25/21 21:23	375-73-5	
Perfluoroheptanoic acid	2.4	ng/L	1.8		1	04/16/21 11:12	04/25/21 21:23	375-85-9	
Perfluorohexanesulfonic acid	3.6	ng/L	1.8		1	04/16/21 11:12	04/25/21 21:23	355-46-4	
Perfluorononanoic acid	<1.8	ng/L	1.8		1	04/16/21 11:12	04/25/21 21:23	375-95-1	
Perfluorooctanesulfonic acid	3.6	ng/L	1.8	10	1	04/16/21 11:12	04/25/21 21:23	1763-23-1	
Perfluorooctanoic acid	6.2	ng/L	1.8	10	1	04/16/21 11:12	04/25/21 21:23	335-67-1	
Surrogates									
13C2-PFDA (S)	104	%	70-130		1	04/16/21 11:12	04/25/21 21:23		
13C2-PFHxA (S)	103	%	70-130		1	04/16/21 11:12	04/25/21 21:23		
HFPO-DAS (S)	88	%	70-130		1	04/16/21 11:12	04/25/21 21:23		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/12
Pace Project No.: 70168805

Sample: N-07552 **Lab ID: 70168805002** **Collected: 04/12/21 10:10** Received: 04/12/21 15:31 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	6.7	ug/L	0.10		5	04/21/21 09:54	04/22/21 13:20	123-91-1	M1
Surrogates									
1,4-Dioxane-d8 (S)	102	%	70-130		5	04/21/21 09:54	04/22/21 13:20		
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	04/16/21 11:12	04/25/21 21:41	375-73-5	
Perfluoroheptanoic acid	1.9	ng/L	1.8		1	04/16/21 11:12	04/25/21 21:41	375-85-9	
Perfluorohexanesulfonic acid	3.2	ng/L	1.8		1	04/16/21 11:12	04/25/21 21:41	355-46-4	
Perfluorononanoic acid	6.2	ng/L	1.8		1	04/16/21 11:12	04/25/21 21:41	375-95-1	
Perfluorooctanesulfonic acid	4.7	ng/L	1.8	10	1	04/16/21 11:12	04/25/21 21:41	1763-23-1	
Perfluorooctanoic acid	4.9	ng/L	1.8	10	1	04/16/21 11:12	04/25/21 21:41	335-67-1	
Surrogates									
13C2-PFDA (S)	104	%	70-130		1	04/16/21 11:12	04/25/21 21:41		
13C2-PFHxA (S)	105	%	70-130		1	04/16/21 11:12	04/25/21 21:41		
HFPO-DAS (S)	101	%	70-130		1	04/16/21 11:12	04/25/21 21:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/12

Pace Project No.: 70168805

Sample: N-13510 **Lab ID: 70168805003** **Collected: 04/12/21 10:32** Received: 04/12/21 15:31 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.22	ug/L	0.020		1	04/21/21 09:54	04/21/21 20:02	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	87	%	70-130		1	04/21/21 09:54	04/21/21 20:02		
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	04/16/21 11:12	04/26/21 10:20	375-73-5	
Perfluoroheptanoic acid	<1.8	ng/L	1.8		1	04/16/21 11:12	04/26/21 10:20	375-85-9	
Perfluorohexanesulfonic acid	2.0	ng/L	1.8		1	04/16/21 11:12	04/26/21 10:20	355-46-4	
Perfluorononanoic acid	<1.8	ng/L	1.8		1	04/16/21 11:12	04/26/21 10:20	375-95-1	
Perfluorooctanesulfonic acid	2.6	ng/L	1.8	10	1	04/16/21 11:12	04/26/21 10:20	1763-23-1	
Perfluorooctanoic acid	3.4	ng/L	1.8	10	1	04/16/21 11:12	04/26/21 10:20	335-67-1	
Surrogates									
13C2-PFDA (S)	106	%	70-130		1	04/16/21 11:12	04/26/21 10:20		
13C2-PFHxA (S)	94	%	70-130		1	04/16/21 11:12	04/26/21 10:20		
HFPO-DAS (S)	112	%	70-130		1	04/16/21 11:12	04/26/21 10:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/12

Pace Project No.: 70168805

Sample: AS-9/8/11 **Lab ID: 70168805004** Collected: 04/12/21 09:43 Received: 04/12/21 15:31 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	2.1	ug/L	0.020		1	04/21/21 09:54	04/21/21 20:35	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	04/21/21 09:54	04/21/21 20:35		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		04/17/21 02:26	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		04/17/21 02:26	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		04/17/21 02:26	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		04/17/21 02:26	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		04/17/21 02:26	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		04/17/21 02:26	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		04/17/21 02:26	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		04/17/21 02:26	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		04/17/21 02:26	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		04/17/21 02:26	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		04/17/21 02:26	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		04/17/21 02:26	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		04/17/21 02:26	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		04/17/21 02:26	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		04/17/21 02:26	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		04/17/21 02:26	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		04/17/21 02:26	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 02:26	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 02:26	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		04/17/21 02:26	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 02:26	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 02:26	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		04/17/21 02:26	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 02:26	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 02:26	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		04/17/21 02:26	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		04/17/21 02:26	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		04/17/21 02:26	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		04/17/21 02:26	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		04/17/21 02:26	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 4/12

Pace Project No.: 70168805

Sample: AS-9/8/11 **Lab ID: 70168805004** Collected: 04/12/21 09:43 Received: 04/12/21 15:31 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									
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		04/17/21 02:26	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	103-65-1	
Styrene	<0.50	ug/L	0.50		1		04/17/21 02:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/17/21 02:26	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		04/17/21 02:26	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		04/17/21 02:26	127-18-4	
Toluene	<0.50	ug/L	0.50		1		04/17/21 02:26	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		04/17/21 02:26		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		04/17/21 02:26	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		04/17/21 02:26	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		04/17/21 02:26	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		04/17/21 02:26	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		04/17/21 02:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		04/17/21 02:26	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		04/17/21 02:26	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		04/17/21 02:26	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		04/17/21 02:26	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		04/17/21 02:26	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	78	%	70-130		1		04/17/21 02:26	2199-69-1	
4-Bromofluorobenzene (S)	91	%	70-130		1		04/17/21 02:26	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	04/16/21 11:12	04/25/21 21:04	375-73-5	
Perfluoroheptanoic acid	1.9	ng/L	1.8		1	04/16/21 11:12	04/25/21 21:04	375-85-9	
Perfluorohexanesulfonic acid	2.7	ng/L	1.8		1	04/16/21 11:12	04/25/21 21:04	355-46-4	
Perfluorononanoic acid	3.2	ng/L	1.8		1	04/16/21 11:12	04/25/21 21:04	375-95-1	
Perfluorooctanesulfonic acid	4.3	ng/L	1.8		10	04/16/21 11:12	04/25/21 21:04	1763-23-1	
Perfluorooctanoic acid	4.9	ng/L	1.8		10	04/16/21 11:12	04/25/21 21:04	335-67-1	
Surrogates									
13C2-PFDA (S)	104	%	70-130		1	04/16/21 11:12	04/25/21 21:04		
13C2-PFHxA (S)	108	%	70-130		1	04/16/21 11:12	04/25/21 21:04		
HFPO-DAS (S)	100	%	70-130		1	04/16/21 11:12	04/25/21 21:04		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/12
Pace Project No.: 70168805

QC Batch: 204524	Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2	Analysis Description: 524.2 MSV
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70168805004

METHOD BLANK: 1009542 Matrix: Water
Associated Lab Samples: 70168805004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	04/16/21 15:15	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
1,1-Dichloroethene	ug/L	<0.50	0.50	04/16/21 15:15	
1,1-Dichloropropene	ug/L	<0.50	0.50	04/16/21 15:15	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	04/16/21 15:15	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
1,2-Dichloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
1,2-Dichloropropane	ug/L	<0.50	0.50	04/16/21 15:15	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
1,3-Dichloropropane	ug/L	<0.50	0.50	04/16/21 15:15	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
2,2-Dichloropropane	ug/L	<0.50	0.50	04/16/21 15:15	
2-Chlorotoluene	ug/L	<0.50	0.50	04/16/21 15:15	
4-Chlorotoluene	ug/L	<0.50	0.50	04/16/21 15:15	
Benzene	ug/L	<0.50	0.50	04/16/21 15:15	
Bromobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
Bromochloromethane	ug/L	<0.50	0.50	04/16/21 15:15	
Bromodichloromethane	ug/L	<0.50	0.50	04/16/21 15:15	
Bromoform	ug/L	<0.50	0.50	04/16/21 15:15	
Bromomethane	ug/L	<0.50	0.50	04/16/21 15:15	
Carbon tetrachloride	ug/L	<0.50	0.50	04/16/21 15:15	
Chlorobenzene	ug/L	<0.50	0.50	04/16/21 15:15	
Chlorodifluoromethane	ug/L	<0.50	0.50	04/16/21 15:15	N3
Chloroethane	ug/L	<0.50	0.50	04/16/21 15:15	
Chloroform	ug/L	<0.50	0.50	04/16/21 15:15	
Chloromethane	ug/L	<0.50	0.50	04/16/21 15:15	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	04/16/21 15:15	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	04/16/21 15:15	
Dibromochloromethane	ug/L	<0.50	0.50	04/16/21 15:15	
Dibromomethane	ug/L	<0.50	0.50	04/16/21 15:15	
Dichlorodifluoromethane	ug/L	<0.50	0.50	04/16/21 15:15	
Ethylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/12
Pace Project No.: 70168805

METHOD BLANK: 1009542 Matrix: Water
Associated Lab Samples: 70168805004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	04/16/21 15:15	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	04/16/21 15:15	
m&p-Xylene	ug/L	<0.50	0.50	04/16/21 15:15	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	04/16/21 15:15	
Methylene Chloride	ug/L	<0.50	0.50	04/16/21 15:15	
n-Butylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	
n-Propylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	
o-Xylene	ug/L	<0.50	0.50	04/16/21 15:15	
p-Isopropyltoluene	ug/L	<0.50	0.50	04/16/21 15:15	
sec-Butylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	
Styrene	ug/L	<0.50	0.50	04/16/21 15:15	
tert-Butylbenzene	ug/L	<0.50	0.50	04/16/21 15:15	
Tetrachloroethene	ug/L	<0.50	0.50	04/16/21 15:15	
Toluene	ug/L	<0.50	0.50	04/16/21 15:15	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	04/16/21 15:15	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	04/16/21 15:15	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	04/16/21 15:15	
Trichloroethene	ug/L	<0.50	0.50	04/16/21 15:15	
Trichlorofluoromethane	ug/L	<0.50	0.50	04/16/21 15:15	
Vinyl chloride	ug/L	<0.50	0.50	04/16/21 15:15	
1,2-Dichlorobenzene-d4 (S)	%	92	70-130	04/16/21 15:15	
4-Bromofluorobenzene (S)	%	92	70-130	04/16/21 15:15	

LABORATORY CONTROL SAMPLE: 1009543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.2	92	70-130	
1,1,1-Trichloroethane	ug/L	10	9.2	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	9.5	95	70-130	
1,1,2-Trichloroethane	ug/L	10	9.6	96	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	10.4	104	70-130	N3
1,1-Dichloroethane	ug/L	10	8.9	89	70-130	
1,1-Dichloroethene	ug/L	10	9.5	95	70-130	
1,1-Dichloropropene	ug/L	10	9.6	96	70-130	
1,2,3-Trichlorobenzene	ug/L	10	8.4	84	70-130	
1,2,3-Trichloropropane	ug/L	10	9.7	97	70-130	
1,2,4-Trichlorobenzene	ug/L	10	8.7	87	70-130	
1,2,4-Trimethylbenzene	ug/L	10	9.8	98	70-130	
1,2-Dichlorobenzene	ug/L	10	9.4	94	70-130	
1,2-Dichloroethane	ug/L	10	9.4	94	70-130	
1,2-Dichloropropane	ug/L	10	9.2	92	70-130	
1,3,5-Trimethylbenzene	ug/L	10	9.2	92	70-130	
1,3-Dichlorobenzene	ug/L	10	9.5	95	70-130	
1,3-Dichloropropane	ug/L	10	9.3	93	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/12

Pace Project No.: 70168805

LABORATORY CONTROL SAMPLE: 1009543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	9.5	95	70-130	
2,2-Dichloropropane	ug/L	10	8.9	89	70-130	
2-Chlorotoluene	ug/L	10	9.1	91	70-130	
4-Chlorotoluene	ug/L	10	9.4	94	70-130	
Benzene	ug/L	10	9.1	91	70-130	
Bromobenzene	ug/L	10	9.3	93	70-130	
Bromochloromethane	ug/L	10	8.8	88	70-130	
Bromodichloromethane	ug/L	10	9.1	91	70-130	
Bromoform	ug/L	10	9.4	94	70-130	
Bromomethane	ug/L	10	8.8	88	70-130	
Carbon tetrachloride	ug/L	10	9.2	92	70-130	
Chlorobenzene	ug/L	10	9.5	95	70-130	
Chlorodifluoromethane	ug/L	10	8.9	89	70-130	N3
Chloroethane	ug/L	10	8.1	81	70-130	
Chloroform	ug/L	10	9.5	95	70-130	
Chloromethane	ug/L	10	8.0	80	70-130	
cis-1,2-Dichloroethene	ug/L	10	8.8	88	70-130	
cis-1,3-Dichloropropene	ug/L	10	10	100	70-130	
Dibromochloromethane	ug/L	10	9.4	94	70-130	
Dibromomethane	ug/L	10	9.6	96	70-130	
Dichlorodifluoromethane	ug/L	10	9.9	99	70-130	
Ethylbenzene	ug/L	10	9.5	95	70-130	
Hexachloro-1,3-butadiene	ug/L	10	9.8	98	70-130	
Isopropylbenzene (Cumene)	ug/L	10	9.3	93	70-130	
m&p-Xylene	ug/L	20	18.5	92	70-130	
Methyl-tert-butyl ether	ug/L	10	10.7	107	70-130	IH
Methylene Chloride	ug/L	10	8.5	85	70-130	
n-Butylbenzene	ug/L	10	9.2	92	70-130	
n-Propylbenzene	ug/L	10	9.9	99	70-130	
o-Xylene	ug/L	10	9.4	94	70-130	
p-Isopropyltoluene	ug/L	10	9.7	97	70-130	
sec-Butylbenzene	ug/L	10	9.5	95	70-130	
Styrene	ug/L	10	10	100	70-130	
tert-Butylbenzene	ug/L	10	9.3	93	70-130	
Tetrachloroethene	ug/L	10	9.2	92	70-130	
Toluene	ug/L	10	9.4	94	70-130	
Total Trihalomethanes (Calc.)	ug/L		37.3			
trans-1,2-Dichloroethene	ug/L	10	8.8	88	70-130	
trans-1,3-Dichloropropene	ug/L	10	9.6	96	70-130	
Trichloroethene	ug/L	10	9.3	93	70-130	
Trichlorofluoromethane	ug/L	10	9.6	96	70-130	
Vinyl chloride	ug/L	10	9.3	93	70-130	
1,2-Dichlorobenzene-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/12

Pace Project No.: 70168805

QC Batch: 204766

Analysis Method: EPA 522

QC Batch Method: EPA 522

Analysis Description: 522 MSS 1,4 Dioxane

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70168805001

METHOD BLANK: 1012795

Matrix: Drinking Water

Associated Lab Samples: 70168805001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	04/21/21 14:56	
1,4-Dioxane-d8 (S)	%	88	70-130	04/21/21 14:56	

LABORATORY CONTROL SAMPLE: 1012796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4	3.5	87	70-130	
1,4-Dioxane-d8 (S)	%			85	70-130	

MATRIX SPIKE SAMPLE: 1012797

Parameter	Units	70168797005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	4	3.6	90	70-130	
1,4-Dioxane-d8 (S)	%				88	70-130	

SAMPLE DUPLICATE: 1012798

Parameter	Units	70168771001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.96	0.98	1	20	
1,4-Dioxane-d8 (S)	%	86	88		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/12

Pace Project No.: 70168805

QC Batch:	204971	Analysis Method:	EPA 522
QC Batch Method:	EPA 522	Analysis Description:	522 MSS 1,4 Dioxane
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70168805002, 70168805003, 70168805004

METHOD BLANK: 1013835 Matrix: Drinking Water

Associated Lab Samples: 70168805002, 70168805003, 70168805004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	04/21/21 18:56	
1,4-Dioxane-d8 (S)	%	89	70-130	04/21/21 18:56	

LABORATORY CONTROL SAMPLE: 1013836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	<0.020	98	70-130	
1,4-Dioxane-d8 (S)	%			89	70-130	

MATRIX SPIKE SAMPLE: 1013837

Parameter	Units	70168805002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	6.7	0.02	6.1	-2690	70-130	E,M1
1,4-Dioxane-d8 (S)	%				91	70-130	

SAMPLE DUPLICATE: 1013838

Parameter	Units	70168805003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.22	0.22	3	20	
1,4-Dioxane-d8 (S)	%	87	90		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/12

Pace Project No.: 70168805

QC Batch:	721551	Analysis Method:	EPA 537.1
QC Batch Method:	EPA 537.1	Analysis Description:	537.1 PFOA Compounds, Water
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70168805001, 70168805002, 70168805003, 70168805004

METHOD BLANK: 3933012 Matrix: Water

Associated Lab Samples: 70168805001, 70168805002, 70168805003, 70168805004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	04/25/21 19:12	
Perfluoroheptanoic acid	ng/L	ND	2.0	04/25/21 19:12	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	04/25/21 19:12	
Perfluorononanoic acid	ng/L	ND	2.0	04/25/21 19:12	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	04/25/21 19:12	
Perfluorooctanoic acid	ng/L	ND	2.0	04/25/21 19:12	
13C2-PFDA (S)	%	110	70-130	04/25/21 19:12	
13C2-PFHxA (S)	%	104	70-130	04/25/21 19:12	
HFPO-DAS (S)	%	96	70-130	04/25/21 19:12	
NETFOSAA-d5 (S)	%	112	70-130	04/25/21 19:12	

LABORATORY CONTROL SAMPLE: 3933013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	142	136	96	70-130	
Perfluoroheptanoic acid	ng/L	160	146	91	70-130	
Perfluorohexanesulfonic acid	ng/L	146	142	98	70-130	
Perfluorononanoic acid	ng/L	160	154	96	70-130	
Perfluorooctanesulfonic acid	ng/L	148	142	96	70-130	
Perfluorooctanoic acid	ng/L	160	153	95	70-130	
13C2-PFDA (S)	%			102	70-130	
13C2-PFHxA (S)	%			97	70-130	
HFPO-DAS (S)	%			105	70-130	
NETFOSAA-d5 (S)	%			100	70-130	

LABORATORY CONTROL SAMPLE: 3933014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.7J	97	50-150	
Perfluoroheptanoic acid	ng/L	2	2.0	102	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.6J	90	50-150	
Perfluorononanoic acid	ng/L	2	2.1	106	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	2.2	119	50-150	
Perfluorooctanoic acid	ng/L	2	2.0	102	50-150	
13C2-PFDA (S)	%			102	70-130	
13C2-PFHxA (S)	%			102	70-130	
HFPO-DAS (S)	%			91	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 4/12
Pace Project No.: 70168805

LABORATORY CONTROL SAMPLE: 3933014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3933015 3933016

Parameter	Units	35625895001		3933015		3933016		% Rec Limits	RPD	Max RPD	Qual	
		35625895001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Perfluorobutanesulfonic acid	ng/L	0.0044 ug/L	1.6	1.6	5.1	5.3	49	63	70-130	4	30	M1
Perfluoroheptanoic acid	ng/L	0.0031 ug/L	1.8	1.8	4.6	4.4	84	75	70-130	4	30	
Perfluorohexanesulfonic acid	ng/L	0.0083 ug/L	1.6	1.6	9.9	9.2	101	58	70-130	7	30	M1
Perfluorononanoic acid	ng/L	0.0017U ug/L	1.8	1.8	2.2	2.3	106	110	70-130	3	30	
Perfluorooctanesulfonic acid	ng/L	0.014 ug/L	1.6	1.6	15.4	15.9	72	105	70-130	3	30	
Perfluorooctanoic acid	ng/L	0.0052 ug/L	1.8	1.8	6.5	6.6	70	76	70-130	2	30	
13C2-PFDA (S)	%						101	96	70-130			
13C2-PFHxA (S)	%						106	103	70-130			
HFPO-DAS (S)	%						117	104	70-130			
NEtFOSAA-d5 (S)	%						105	96	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1,4 DIOXANE/PFAS 4/12

Pace Project No.: 70168805

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.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS 4/12

Pace Project No.: 70168805

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70168805001	N-07551	EPA 522	204766	EPA 522	204865
70168805002	N-07552	EPA 522	204971	EPA 522	205144
70168805003	N-13510	EPA 522	204971	EPA 522	205144
70168805004	AS-9/8/11	EPA 522	204971	EPA 522	205144
70168805004	AS-9/8/11	EPA 524.2	204524		
70168805001	N-07551	EPA 537.1	721551	EPA 537.1	722112
70168805002	N-07552	EPA 537.1	721551	EPA 537.1	722112
70168805003	N-13510	EPA 537.1	721551	EPA 537.1	722112
70168805004	AS-9/8/11	EPA 537.1	721551	EPA 537.1	722112

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 70168805

Client Name: PWW

Project

PM: JSA

Due Date: 04/22/21

CLIENT: PWW

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): 2.7 Cooler Temperature Corrected (°C): 2.7

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: 4/12/21 JP

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

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

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

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

Client Notification/ Resolution:

Field Data Required? Y / N

Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

May 11, 2021

Supt. Tal Vacchio
Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050

RE: Project: 1,4 DIOXANE/PFAS/POC 5/3
Pace Project No.: 70171385

Dear Supt. Tal Vacchio:

Enclosed are the analytical results for sample(s) received by the laboratory on May 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
Jim Van Horn
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Lisa Ortiz, D&B
Xavier Sardoni, D&B Engineers
Jasper Skliba, Port Washington W.D.
Reports User, Port Washington W.D.
Richard Zimbardi, Port Washington W.D.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1,4 DIOXANE/PFAS/POC 5/3
Pace Project No.: 70171385

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236

Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Virginia Certification # 460302
Delaware Certification # NY10478
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70171385001	N-09809	Drinking Water	05/03/21 08:17	05/03/21 15:29
70171385002	GAC-09809	Drinking Water	05/03/21 08:33	05/03/21 15:29
70171385003	N-02052	Drinking Water	05/03/21 09:12	05/03/21 15:29
70171385004	GAC-02052	Drinking Water	05/03/21 09:30	05/03/21 15:29
70171385005	N-06087	Drinking Water	05/03/21 08:00	05/03/21 15:29
70171385006	GAC-SH1/SH2	Drinking Water	05/03/21 08:07	05/03/21 15:29
70171385007	N-02030	Drinking Water	05/03/21 10:00	05/03/21 15:29
70171385008	GAC-02030	Drinking Water	05/03/21 09:45	05/03/21 15:29
70171385009	N-05209	Drinking Water	05/03/21 08:40	05/03/21 15:29
70171385010	AS-05209	Drinking Water	05/03/21 08:58	05/03/21 15:29
70171385011	N-04860	Drinking Water	05/03/21 07:50	05/03/21 15:29

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS/POC 5/3
Pace Project No.: 70171385

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70171385001	N-09809	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171385002	GAC-09809	EPA 522	TJD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171385003	N-02052	EPA 522	TJD	2	PACE-MV
		EPA 524.3	BBL	5	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171385004	GAC-02052	EPA 522	TJD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 524.3	BBL	5	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171385005	N-06087	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171385006	GAC-SH1/SH2	EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171385007	N-02030	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171385008	GAC-02030	EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171385009	N-05209	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171385010	AS-05209	EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70171385011	N-04860	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: N-09809 **Lab ID: 70171385001** **Collected: 05/03/21 08:17** Received: 05/03/21 15:29 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.70	ug/L	0.020		1	05/07/21 15:47	05/08/21 00:20	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	05/07/21 15:47	05/08/21 00:20		
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:38	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:38	375-85-9	
Perfluorohexanesulfonic acid	2.3	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:38	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:38	375-95-1	
Perfluorooctanesulfonic acid	<1.9	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 08:38	1763-23-1	
Perfluorooctanoic acid	3.3	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 08:38	335-67-1	
Surrogates									
13C2-PFDA (S)	113	%	70-130		1	05/06/21 09:28	05/09/21 08:38		
13C2-PFHxA (S)	106	%	70-130		1	05/06/21 09:28	05/09/21 08:38		
NEtFOSAA-d5 (S)	116	%	70-130		1	05/06/21 09:28	05/09/21 08:38		
HFPO-DAS (S)	102	%	70-130		1	05/06/21 09:28	05/09/21 08:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: GAC-09809 **Lab ID: 70171385002** Collected: 05/03/21 08:33 Received: 05/03/21 15:29 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.67	ug/L	0.020		1	05/07/21 15:41	05/08/21 01:21	123-91-1	M0
Surrogates									
1,4-Dioxane-d8 (S)	89	%	70-130		1	05/07/21 15:41	05/08/21 01:21		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		05/04/21 15:49	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/04/21 15:49	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/04/21 15:49	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		05/04/21 15:49	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		05/04/21 15:49	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/04/21 15:49	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/04/21 15:49	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/04/21 15:49	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		05/04/21 15:49	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/04/21 15:49	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/04/21 15:49	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/04/21 15:49	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/04/21 15:49	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/04/21 15:49	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/04/21 15:49	75-71-8	
1,1-Dichloroethane	1.3	ug/L	0.50		1		05/04/21 15:49	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/04/21 15:49	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 15:49	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 15:49	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 15:49	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 15:49	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 15:49	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 15:49	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 15:49	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 15:49	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 15:49	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/04/21 15:49	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/04/21 15:49	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/04/21 15:49	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/04/21 15:49	75-09-2	

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: GAC-09809 **Lab ID: 70171385002** Collected: 05/03/21 08:33 Received: 05/03/21 15:29 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									
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		05/04/21 15:49	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/04/21 15:49	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/04/21 15:49	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/04/21 15:49	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		05/04/21 15:49	127-18-4	
Toluene	<0.50	ug/L	0.50		1		05/04/21 15:49	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		05/04/21 15:49		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		05/04/21 15:49	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/04/21 15:49	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		05/04/21 15:49	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/04/21 15:49	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/04/21 15:49	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/04/21 15:49	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/04/21 15:49	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/04/21 15:49	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/04/21 15:49	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/04/21 15:49	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		05/04/21 15:49	2199-69-1	
4-Bromofluorobenzene (S)	104	%	70-130		1		05/04/21 15:49	460-00-4	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:57	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:57	375-85-9	
Perfluorohexanesulfonic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:57	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:57	375-95-1	
Perfluorooctanesulfonic acid	<1.9	ng/L	1.9		10	05/06/21 09:28	05/09/21 08:57	1763-23-1	
Perfluorooctanoic acid	<1.9	ng/L	1.9		10	05/06/21 09:28	05/09/21 08:57	335-67-1	
Surrogates									
13C2-PFDA (S)	101	%	70-130		1	05/06/21 09:28	05/09/21 08:57		
13C2-PFHxA (S)	95	%	70-130		1	05/06/21 09:28	05/09/21 08:57		
NEtFOSAA-d5 (S)	111	%	70-130		1	05/06/21 09:28	05/09/21 08:57		
HFPO-DAS (S)	94	%	70-130		1	05/06/21 09:28	05/09/21 08:57		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: N-02052 **Lab ID: 70171385003** **Collected: 05/03/21 09:12** Received: 05/03/21 15:29 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.85	ug/L	0.020		1	05/07/21 15:41	05/08/21 02:01	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	05/07/21 15:41	05/08/21 02:01		
524.3 MSV SIM									
Analytical Method: EPA 524.3									
Pace Analytical Services - Melville									
1,2-Dibromoethane (EDB)	0.012	ug/L	0.010		1		05/07/21 15:49	106-93-4	
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1		05/07/21 15:49	96-12-8	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/07/21 15:49	2199-69-1	
tert Butyl Methyl-d3 Ether (S)	105	%	70-130		1		05/07/21 15:49	29366-08-3	
4-Bromofluorobenzene (S)	97	%	70-130		1		05/07/21 15:49	460-00-4	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 09:52	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 09:52	375-85-9	
Perfluorohexanesulfonic acid	2.6	ng/L	1.9		1	05/06/21 09:28	05/09/21 09:52	355-46-4	
Perfluorononanoic acid	31.7	ng/L	1.9		1	05/06/21 09:28	05/09/21 09:52	375-95-1	
Perfluorooctanesulfonic acid	5.5	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 09:52	1763-23-1	
Perfluorooctanoic acid	4.6	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 09:52	335-67-1	
Surrogates									
13C2-PFDA (S)	101	%	70-130		1	05/06/21 09:28	05/09/21 09:52		
13C2-PFHxA (S)	98	%	70-130		1	05/06/21 09:28	05/09/21 09:52		
NEtFOSAA-d5 (S)	115	%	70-130		1	05/06/21 09:28	05/09/21 09:52		
HFPO-DAS (S)	97	%	70-130		1	05/06/21 09:28	05/09/21 09:52		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: GAC-02052 Lab ID: 70171385004 Collected: 05/03/21 09:30 Received: 05/03/21 15:29 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.89	ug/L	0.020		1	05/07/21 15:41	05/08/21 02:22	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	05/07/21 15:41	05/08/21 02:22		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		05/04/21 16:17	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/04/21 16:17	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/04/21 16:17	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		05/04/21 16:17	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		05/04/21 16:17	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/04/21 16:17	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/04/21 16:17	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/04/21 16:17	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		05/04/21 16:17	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/04/21 16:17	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/04/21 16:17	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/04/21 16:17	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/04/21 16:17	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/04/21 16:17	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/04/21 16:17	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		05/04/21 16:17	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/04/21 16:17	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 16:17	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 16:17	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 16:17	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 16:17	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 16:17	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 16:17	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 16:17	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 16:17	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 16:17	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/04/21 16:17	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/04/21 16:17	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/04/21 16:17	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/04/21 16:17	75-09-2	

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: GAC-02052 **Lab ID: 70171385004** Collected: 05/03/21 09:30 Received: 05/03/21 15:29 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									
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		05/04/21 16:17	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/04/21 16:17	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/04/21 16:17	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/04/21 16:17	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		05/04/21 16:17	127-18-4	
Toluene	<0.50	ug/L	0.50		1		05/04/21 16:17	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		05/04/21 16:17		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		05/04/21 16:17	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/04/21 16:17	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		05/04/21 16:17	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/04/21 16:17	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/04/21 16:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/04/21 16:17	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:17	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/04/21 16:17	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/04/21 16:17	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/04/21 16:17	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		05/04/21 16:17	2199-69-1	
4-Bromofluorobenzene (S)	99	%	70-130		1		05/04/21 16:17	460-00-4	
524.3 MSV SIM									
Analytical Method: EPA 524.3									
Pace Analytical Services - Melville									
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010		1		05/07/21 16:15	106-93-4	
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1		05/07/21 16:15	96-12-8	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		05/07/21 16:15	2199-69-1	
tert Butyl Methyl-d3 Ether (S)	104	%	70-130		1		05/07/21 16:15	29366-08-3	
4-Bromofluorobenzene (S)	98	%	70-130		1		05/07/21 16:15	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	05/06/21 09:28	05/09/21 10:10	375-73-5	
Perfluoroheptanoic acid	<1.8	ng/L	1.8		1	05/06/21 09:28	05/09/21 10:10	375-85-9	
Perfluorohexanesulfonic acid	<1.8	ng/L	1.8		1	05/06/21 09:28	05/09/21 10:10	355-46-4	
Perfluorononanoic acid	<1.8	ng/L	1.8		1	05/06/21 09:28	05/09/21 10:10	375-95-1	
Perfluorooctanesulfonic acid	<1.8	ng/L	1.8		10	05/06/21 09:28	05/09/21 10:10	1763-23-1	
Perfluorooctanoic acid	<1.8	ng/L	1.8		10	05/06/21 09:28	05/09/21 10:10	335-67-1	
Surrogates									
13C2-PFDA (S)	102	%	70-130		1	05/06/21 09:28	05/09/21 10:10		
13C2-PFHxA (S)	95	%	70-130		1	05/06/21 09:28	05/09/21 10:10		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: GAC-02052 **Lab ID: 70171385004** Collected: 05/03/21 09:30 Received: 05/03/21 15:29 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
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537.1 PFAS Compounds, Water Analytical Method: EPA 537.1 Preparation Method: EPA 537.1
Pace Analytical Services - Ormond Beach

Surrogates

NEtFOSAA-d5 (S)	116	%	70-130		1	05/06/21 09:28	05/09/21 10:10		
HFPO-DAS (S)	84	%	70-130		1	05/06/21 09:28	05/09/21 10:10		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: N-06087		Lab ID: 70171385005		Collected: 05/03/21 08:00	Received: 05/03/21 15:29	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)		Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville							
1,4-Dioxane (p-Dioxane)	0.028	ug/L	0.020		1	05/07/21 15:41	05/08/21 03:02	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	05/07/21 15:41	05/08/21 03:02		
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach							
Perfluorobutanesulfonic acid	3.2	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:01	375-73-5	
Perfluoroheptanoic acid	3.2	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:01	375-85-9	
Perfluorohexanesulfonic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:01	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:01	375-95-1	
Perfluorooctanesulfonic acid	7.4	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 08:01	1763-23-1	
Perfluorooctanoic acid	12.2	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 08:01	335-67-1	
Surrogates									
13C2-PFDA (S)	91	%	70-130		1	05/06/21 09:28	05/09/21 08:01		
13C2-PFHxA (S)	92	%	70-130		1	05/06/21 09:28	05/09/21 08:01		
NEtFOSAA-d5 (S)	89	%	70-130		1	05/06/21 09:28	05/09/21 08:01		
HFPO-DAS (S)	81	%	70-130		1	05/06/21 09:28	05/09/21 08:01		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: GAC-SH1/SH2 **Lab ID: 70171385006** Collected: 05/03/21 08:07 Received: 05/03/21 15:29 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		05/04/21 16:45	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/04/21 16:45	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/04/21 16:45	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		05/04/21 16:45	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		05/04/21 16:45	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/04/21 16:45	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/04/21 16:45	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/04/21 16:45	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		05/04/21 16:45	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/04/21 16:45	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/04/21 16:45	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/04/21 16:45	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/04/21 16:45	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/04/21 16:45	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/04/21 16:45	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		05/04/21 16:45	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/04/21 16:45	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 16:45	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 16:45	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 16:45	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 16:45	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 16:45	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 16:45	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 16:45	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 16:45	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 16:45	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/04/21 16:45	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/04/21 16:45	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/04/21 16:45	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/04/21 16:45	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		05/04/21 16:45	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/04/21 16:45	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/04/21 16:45	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/04/21 16:45	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		05/04/21 16:45	127-18-4	

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: GAC-SH1/SH2 **Lab ID: 70171385006** Collected: 05/03/21 08:07 Received: 05/03/21 15:29 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Toluene	<0.50	ug/L	0.50		1		05/04/21 16:45	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		05/04/21 16:45		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		05/04/21 16:45	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/04/21 16:45	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		05/04/21 16:45	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/04/21 16:45	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/04/21 16:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/04/21 16:45	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/04/21 16:45	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/04/21 16:45	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/04/21 16:45	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/04/21 16:45	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		05/04/21 16:45	2199-69-1	
4-Bromofluorobenzene (S)	108	%	70-130		1		05/04/21 16:45	460-00-4	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:20	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:20	375-85-9	
Perfluorohexanesulfonic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:20	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 08:20	375-95-1	
Perfluorooctanesulfonic acid	<1.9	ng/L	1.9		10	05/06/21 09:28	05/09/21 08:20	1763-23-1	
Perfluorooctanoic acid	<1.9	ng/L	1.9		10	05/06/21 09:28	05/09/21 08:20	335-67-1	
Surrogates									
13C2-PFDA (S)	92	%	70-130		1	05/06/21 09:28	05/09/21 08:20		
13C2-PFHxA (S)	98	%	70-130		1	05/06/21 09:28	05/09/21 08:20		
NEtFOSAA-d5 (S)	91	%	70-130		1	05/06/21 09:28	05/09/21 08:20		
HFPO-DAS (S)	101	%	70-130		1	05/06/21 09:28	05/09/21 08:20		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: N-02030 **Lab ID: 70171385007** Collected: 05/03/21 10:00 Received: 05/03/21 15:29 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.20	ug/L	0.020		1	05/07/21 15:41	05/08/21 03:23	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	91	%	70-130		1	05/07/21 15:41	05/08/21 03:23		
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach									
Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 11:24	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 11:24	375-85-9	
Perfluorohexanesulfonic acid	4.0	ng/L	1.9		1	05/06/21 09:28	05/09/21 11:24	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 11:24	375-95-1	
Perfluorooctanesulfonic acid	2.3	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 11:24	1763-23-1	
Perfluorooctanoic acid	3.7	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 11:24	335-67-1	
Surrogates									
13C2-PFDA (S)	106	%	70-130		1	05/06/21 09:28	05/09/21 11:24		
13C2-PFHxA (S)	96	%	70-130		1	05/06/21 09:28	05/09/21 11:24		
NEtFOSAA-d5 (S)	105	%	70-130		1	05/06/21 09:28	05/09/21 11:24		
HFPO-DAS (S)	81	%	70-130		1	05/06/21 09:28	05/09/21 11:24		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: GAC-02030 **Lab ID: 70171385008** Collected: 05/03/21 09:45 Received: 05/03/21 15:29 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		05/04/21 17:12	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/04/21 17:12	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/04/21 17:12	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		05/04/21 17:12	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		05/04/21 17:12	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/04/21 17:12	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/04/21 17:12	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/04/21 17:12	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		05/04/21 17:12	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/04/21 17:12	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/04/21 17:12	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/04/21 17:12	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/04/21 17:12	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/04/21 17:12	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/04/21 17:12	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		05/04/21 17:12	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/04/21 17:12	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 17:12	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 17:12	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 17:12	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 17:12	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 17:12	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 17:12	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 17:12	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 17:12	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 17:12	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/04/21 17:12	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/04/21 17:12	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/04/21 17:12	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/04/21 17:12	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		05/04/21 17:12	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/04/21 17:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/04/21 17:12	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/04/21 17:12	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		05/04/21 17:12	127-18-4	

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: GAC-02030 Lab ID: 70171385008 Collected: 05/03/21 09:45 Received: 05/03/21 15:29 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Toluene	<0.50	ug/L	0.50		1		05/04/21 17:12	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		05/04/21 17:12		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		05/04/21 17:12	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/04/21 17:12	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		05/04/21 17:12	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/04/21 17:12	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/04/21 17:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/04/21 17:12	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:12	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/04/21 17:12	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/04/21 17:12	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/04/21 17:12	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	90	%	70-130		1		05/04/21 17:12	2199-69-1	
4-Bromofluorobenzene (S)	99	%	70-130		1		05/04/21 17:12	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	05/06/21 09:28	05/09/21 10:29	375-73-5	
Perfluoroheptanoic acid	<1.8	ng/L	1.8		1	05/06/21 09:28	05/09/21 10:29	375-85-9	
Perfluorohexanesulfonic acid	<1.8	ng/L	1.8		1	05/06/21 09:28	05/09/21 10:29	355-46-4	
Perfluorononanoic acid	<1.8	ng/L	1.8		1	05/06/21 09:28	05/09/21 10:29	375-95-1	
Perfluorooctanesulfonic acid	<1.8	ng/L	1.8		10	05/06/21 09:28	05/09/21 10:29	1763-23-1	
Perfluorooctanoic acid	<1.8	ng/L	1.8		10	05/06/21 09:28	05/09/21 10:29	335-67-1	
Surrogates									
13C2-PFDA (S)	111	%	70-130		1	05/06/21 09:28	05/09/21 10:29		
13C2-PFHxA (S)	100	%	70-130		1	05/06/21 09:28	05/09/21 10:29		
NEtFOSAA-d5 (S)	113	%	70-130		1	05/06/21 09:28	05/09/21 10:29		
HFPO-DAS (S)	84	%	70-130		1	05/06/21 09:28	05/09/21 10:29		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: N-05209		Lab ID: 70171385009		Collected: 05/03/21 08:40	Received: 05/03/21 15:29	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual	
522 MSS 1,4 Dioxane (SIM)		Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	0.025	ug/L	0.020		1	05/07/21 15:41	05/08/21 03:43	123-91-1		
Surrogates										
1,4-Dioxane-d8 (S)	90	%	70-130		1	05/07/21 15:41	05/08/21 03:43			
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 09:15	375-73-5		
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 09:15	375-85-9		
Perfluorohexanesulfonic acid	2.1	ng/L	1.9		1	05/06/21 09:28	05/09/21 09:15	355-46-4		
Perfluorononanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 09:15	375-95-1		
Perfluorooctanesulfonic acid	<1.9	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 09:15	1763-23-1		
Perfluorooctanoic acid	3.2	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 09:15	335-67-1		
Surrogates										
13C2-PFDA (S)	105	%	70-130		1	05/06/21 09:28	05/09/21 09:15			
13C2-PFHxA (S)	104	%	70-130		1	05/06/21 09:28	05/09/21 09:15			
NEtFOSAA-d5 (S)	112	%	70-130		1	05/06/21 09:28	05/09/21 09:15			
HFPO-DAS (S)	95	%	70-130		1	05/06/21 09:28	05/09/21 09:15			

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: AS-05209 **Lab ID: 70171385010** Collected: 05/03/21 08:58 Received: 05/03/21 15:29 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		05/04/21 17:40	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/04/21 17:40	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/04/21 17:40	75-27-4	
Bromoform	0.61	ug/L	0.50		1		05/04/21 17:40	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		05/04/21 17:40	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/04/21 17:40	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/04/21 17:40	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/04/21 17:40	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		05/04/21 17:40	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/04/21 17:40	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/04/21 17:40	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/04/21 17:40	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/04/21 17:40	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/04/21 17:40	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/04/21 17:40	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		05/04/21 17:40	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/04/21 17:40	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 17:40	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 17:40	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/04/21 17:40	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 17:40	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 17:40	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/04/21 17:40	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 17:40	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 17:40	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/04/21 17:40	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/04/21 17:40	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/04/21 17:40	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/04/21 17:40	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/04/21 17:40	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		05/04/21 17:40	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/04/21 17:40	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/04/21 17:40	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/04/21 17:40	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		05/04/21 17:40	127-18-4	

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: AS-05209 **Lab ID: 70171385010** Collected: 05/03/21 08:58 Received: 05/03/21 15:29 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Toluene	<0.50	ug/L	0.50		1		05/04/21 17:40	108-88-3	
Total Trihalomethanes (Calc.)	0.61	ug/L	0.50		1		05/04/21 17:40		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		05/04/21 17:40	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/04/21 17:40	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		05/04/21 17:40	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/04/21 17:40	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/04/21 17:40	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/04/21 17:40	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/04/21 17:40	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/04/21 17:40	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/04/21 17:40	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/04/21 17:40	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	95	%	70-130		1		05/04/21 17:40	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130		1		05/04/21 17:40	460-00-4	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 09:34	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 09:34	375-85-9	
Perfluorohexanesulfonic acid	2.1	ng/L	1.9		1	05/06/21 09:28	05/09/21 09:34	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 09:34	375-95-1	
Perfluorooctanesulfonic acid	<1.9	ng/L	1.9		10	05/06/21 09:28	05/09/21 09:34	1763-23-1	
Perfluorooctanoic acid	3.1	ng/L	1.9		10	05/06/21 09:28	05/09/21 09:34	335-67-1	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	05/06/21 09:28	05/09/21 09:34		
13C2-PFHxA (S)	100	%	70-130		1	05/06/21 09:28	05/09/21 09:34		
NEtFOSAA-d5 (S)	103	%	70-130		1	05/06/21 09:28	05/09/21 09:34		
HFPO-DAS (S)	84	%	70-130		1	05/06/21 09:28	05/09/21 09:34		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

Sample: N-04860		Lab ID: 70171385011		Collected: 05/03/21 07:50	Received: 05/03/21 15:29	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual	
522 MSS 1,4 Dioxane (SIM)		Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	0.027	ug/L	0.020		1	05/07/21 15:41	05/08/21 04:03	123-91-1		
Surrogates										
1,4-Dioxane-d8 (S)	91	%	70-130		1	05/07/21 15:41	05/08/21 04:03			
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 07:24	375-73-5		
Perfluoroheptanoic acid	3.2	ng/L	1.9		1	05/06/21 09:28	05/09/21 07:24	375-85-9		
Perfluorohexanesulfonic acid	<1.9	ng/L	1.9		1	05/06/21 09:28	05/09/21 07:24	355-46-4		
Perfluorononanoic acid	2.3	ng/L	1.9		1	05/06/21 09:28	05/09/21 07:24	375-95-1		
Perfluorooctanesulfonic acid	4.1	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 07:24	1763-23-1		
Perfluorooctanoic acid	9.9	ng/L	1.9	10	1	05/06/21 09:28	05/09/21 07:24	335-67-1		
Surrogates										
13C2-PFDA (S)	93	%	70-130		1	05/06/21 09:28	05/09/21 07:24			
13C2-PFHxA (S)	95	%	70-130		1	05/06/21 09:28	05/09/21 07:24			
NEtFOSAA-d5 (S)	90	%	70-130		1	05/06/21 09:28	05/09/21 07:24			
HFPO-DAS (S)	87	%	70-130		1	05/06/21 09:28	05/09/21 07:24			

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS/POC 5/3
Pace Project No.: 70171385

QC Batch: 206651 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70171385002, 70171385004, 70171385006, 70171385008, 70171385010

METHOD BLANK: 1025532 Matrix: Water
Associated Lab Samples: 70171385002, 70171385004, 70171385006, 70171385008, 70171385010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	05/04/21 07:44	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	05/04/21 07:44	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	05/04/21 07:44	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	05/04/21 07:44	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	05/04/21 07:44	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	05/04/21 07:44	
1,1-Dichloroethene	ug/L	<0.50	0.50	05/04/21 07:44	
1,1-Dichloropropene	ug/L	<0.50	0.50	05/04/21 07:44	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	05/04/21 07:44	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	05/04/21 07:44	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	05/04/21 07:44	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	05/04/21 07:44	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	05/04/21 07:44	
1,2-Dichloroethane	ug/L	<0.50	0.50	05/04/21 07:44	
1,2-Dichloropropane	ug/L	<0.50	0.50	05/04/21 07:44	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	05/04/21 07:44	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	05/04/21 07:44	
1,3-Dichloropropane	ug/L	<0.50	0.50	05/04/21 07:44	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	05/04/21 07:44	
2,2-Dichloropropane	ug/L	<0.50	0.50	05/04/21 07:44	
2-Chlorotoluene	ug/L	<0.50	0.50	05/04/21 07:44	
4-Chlorotoluene	ug/L	<0.50	0.50	05/04/21 07:44	
Benzene	ug/L	<0.50	0.50	05/04/21 07:44	
Bromobenzene	ug/L	<0.50	0.50	05/04/21 07:44	
Bromochloromethane	ug/L	<0.50	0.50	05/04/21 07:44	
Bromodichloromethane	ug/L	<0.50	0.50	05/04/21 07:44	
Bromoform	ug/L	<0.50	0.50	05/04/21 07:44	
Bromomethane	ug/L	<0.50	0.50	05/04/21 07:44	
Carbon tetrachloride	ug/L	<0.50	0.50	05/04/21 07:44	
Chlorobenzene	ug/L	<0.50	0.50	05/04/21 07:44	
Chlorodifluoromethane	ug/L	<0.50	0.50	05/04/21 07:44	N3
Chloroethane	ug/L	<0.50	0.50	05/04/21 07:44	
Chloroform	ug/L	<0.50	0.50	05/04/21 07:44	
Chloromethane	ug/L	<0.50	0.50	05/04/21 07:44	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	05/04/21 07:44	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	05/04/21 07:44	
Dibromochloromethane	ug/L	<0.50	0.50	05/04/21 07:44	
Dibromomethane	ug/L	<0.50	0.50	05/04/21 07:44	
Dichlorodifluoromethane	ug/L	<0.50	0.50	05/04/21 07:44	
Ethylbenzene	ug/L	<0.50	0.50	05/04/21 07:44	

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.

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

METHOD BLANK: 1025532

Matrix: Water

Associated Lab Samples: 70171385002, 70171385004, 70171385006, 70171385008, 70171385010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	05/04/21 07:44	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	05/04/21 07:44	
m&p-Xylene	ug/L	<0.50	0.50	05/04/21 07:44	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	05/04/21 07:44	
Methylene Chloride	ug/L	<0.50	0.50	05/04/21 07:44	
n-Butylbenzene	ug/L	<0.50	0.50	05/04/21 07:44	
n-Propylbenzene	ug/L	<0.50	0.50	05/04/21 07:44	
o-Xylene	ug/L	<0.50	0.50	05/04/21 07:44	
p-Isopropyltoluene	ug/L	<0.50	0.50	05/04/21 07:44	
sec-Butylbenzene	ug/L	<0.50	0.50	05/04/21 07:44	
Styrene	ug/L	<0.50	0.50	05/04/21 07:44	
tert-Butylbenzene	ug/L	<0.50	0.50	05/04/21 07:44	
Tetrachloroethene	ug/L	<0.50	0.50	05/04/21 07:44	
Toluene	ug/L	<0.50	0.50	05/04/21 07:44	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	05/04/21 07:44	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	05/04/21 07:44	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	05/04/21 07:44	
Trichloroethene	ug/L	<0.50	0.50	05/04/21 07:44	
Trichlorofluoromethane	ug/L	<0.50	0.50	05/04/21 07:44	
Vinyl chloride	ug/L	<0.50	0.50	05/04/21 07:44	
1,2-Dichlorobenzene-d4 (S)	%	95	70-130	05/04/21 07:44	
4-Bromofluorobenzene (S)	%	98	70-130	05/04/21 07:44	

LABORATORY CONTROL SAMPLE: 1025533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.6	106	70-130	
1,1,1-Trichloroethane	ug/L	10	10.1	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	11.2	112	70-130	
1,1,2-Trichloroethane	ug/L	10	10.9	109	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	11.1	111	70-130	N3
1,1-Dichloroethane	ug/L	10	10.2	102	70-130	
1,1-Dichloroethene	ug/L	10	9.3	93	70-130	
1,1-Dichloropropene	ug/L	10	10.7	107	70-130	
1,2,3-Trichlorobenzene	ug/L	10	10.0	100	70-130	
1,2,3-Trichloropropane	ug/L	10	11.9	119	70-130	
1,2,4-Trichlorobenzene	ug/L	10	10.3	103	70-130	
1,2,4-Trimethylbenzene	ug/L	10	10.9	109	70-130	
1,2-Dichlorobenzene	ug/L	10	10.7	107	70-130	
1,2-Dichloroethane	ug/L	10	10.6	106	70-130	
1,2-Dichloropropane	ug/L	10	10.2	102	70-130	
1,3,5-Trimethylbenzene	ug/L	10	10.3	103	70-130	
1,3-Dichlorobenzene	ug/L	10	10.8	108	70-130	
1,3-Dichloropropane	ug/L	10	10.5	105	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

LABORATORY CONTROL SAMPLE: 1025533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	10.7	107	70-130	
2,2-Dichloropropane	ug/L	10	10.1	101	70-130	
2-Chlorotoluene	ug/L	10	10.9	109	70-130	
4-Chlorotoluene	ug/L	10	11.2	112	70-130	
Benzene	ug/L	10	10	100	70-130	
Bromobenzene	ug/L	10	10.4	104	70-130	
Bromochloromethane	ug/L	10	9.7	97	70-130	
Bromodichloromethane	ug/L	10	9.7	97	70-130	
Bromoform	ug/L	10	11.5	115	70-130	
Bromomethane	ug/L	10	8.8	88	70-130	
Carbon tetrachloride	ug/L	10	10.0	100	70-130	
Chlorobenzene	ug/L	10	10.8	108	70-130	
Chlorodifluoromethane	ug/L	10	10.2	102	70-130	N3
Chloroethane	ug/L	10	9.1	91	70-130	
Chloroform	ug/L	10	10.4	104	70-130	
Chloromethane	ug/L	10	7.6	76	70-130	
cis-1,2-Dichloroethene	ug/L	10	9.7	97	70-130	
cis-1,3-Dichloropropene	ug/L	10	10.8	108	70-130	
Dibromochloromethane	ug/L	10	10.3	103	70-130	
Dibromomethane	ug/L	10	11.6	116	70-130	
Dichlorodifluoromethane	ug/L	10	7.2	72	70-130	
Ethylbenzene	ug/L	10	11.0	110	70-130	
Hexachloro-1,3-butadiene	ug/L	10	10.5	105	70-130	
Isopropylbenzene (Cumene)	ug/L	10	10.5	105	70-130	
m&p-Xylene	ug/L	20	21.1	105	70-130	
Methyl-tert-butyl ether	ug/L	10	9.8	98	70-130	IH
Methylene Chloride	ug/L	10	9.8	98	70-130	
n-Butylbenzene	ug/L	10	10.7	107	70-130	
n-Propylbenzene	ug/L	10	11.3	113	70-130	
o-Xylene	ug/L	10	10.3	103	70-130	
p-Isopropyltoluene	ug/L	10	10.7	107	70-130	
sec-Butylbenzene	ug/L	10	10.6	106	70-130	
Styrene	ug/L	10	11.2	112	70-130	
tert-Butylbenzene	ug/L	10	10.5	105	70-130	
Tetrachloroethene	ug/L	10	10.0	100	70-130	
Toluene	ug/L	10	10.6	106	70-130	
Total Trihalomethanes (Calc.)	ug/L		42.0			
trans-1,2-Dichloroethene	ug/L	10	9.9	99	70-130	
trans-1,3-Dichloropropene	ug/L	10	10.9	109	70-130	
Trichloroethene	ug/L	10	10.2	102	70-130	
Trichlorofluoromethane	ug/L	10	10	100	70-130	
Vinyl chloride	ug/L	10	9.0	90	70-130	
1,2-Dichlorobenzene-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			109	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

SAMPLE DUPLICATE: 1029200

Parameter	Units	70171369001 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	4.1	4.1	1	20	
Bromoform	ug/L	<0.50	<0.50		20	
Bromomethane	ug/L	<0.50	<0.50		20	
Carbon tetrachloride	ug/L	<0.50	<0.50		20	
Chlorobenzene	ug/L	<0.50	<0.50		20	
Chlorodifluoromethane	ug/L	<0.50	<0.50		20	N3
Chloroethane	ug/L	<0.50	<0.50		20	
Chloroform	ug/L	41.5	40.9	1	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	1.0	1.0	4	20	
Dibromomethane	ug/L	<0.50	<0.50		20	
Dichlorodifluoromethane	ug/L	<0.50	<0.50		20	
Ethylbenzene	ug/L	<0.50	<0.50		20	
Hexachloro-1,3-butadiene	ug/L	<0.50	<0.50		20	
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50		20	
m&p-Xylene	ug/L	<0.50	<0.50		20	
Methyl-tert-butyl ether	ug/L	<0.50	<0.50		20	
Methylene Chloride	ug/L	<0.50	<0.50		20	
n-Butylbenzene	ug/L	<0.50	<0.50		20	
n-Propylbenzene	ug/L	<0.50	<0.50		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

SAMPLE DUPLICATE: 1029200

Parameter	Units	70171369001 Result	Dup Result	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	<0.50	<0.50		20	
p-Isopropyltoluene	ug/L	<0.50	<0.50		20	
sec-Butylbenzene	ug/L	<0.50	<0.50		20	
Styrene	ug/L	<0.50	<0.50		20	
tert-Butylbenzene	ug/L	<0.50	<0.50		20	
Tetrachloroethene	ug/L	<0.50	<0.50		20	
Toluene	ug/L	1.6	1.5	7	20	
Total Trihalomethanes (Calc.)	ug/L	46.6	46.0	1	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	<0.50	<0.50		20	
Trichlorofluoromethane	ug/L	<0.50	<0.50		20	
Vinyl chloride	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene-d4 (S)	%	92	95		20	
4-Bromofluorobenzene (S)	%	103	99		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

QC Batch: 207725

Analysis Method: EPA 524.3

QC Batch Method: EPA 524.3

Analysis Description: 524.3 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70171385003, 70171385004

METHOD BLANK: 1032582

Matrix: Water

Associated Lab Samples: 70171385003, 70171385004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.010	05/07/21 14:56	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.010	05/07/21 14:56	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130	05/07/21 14:56	
4-Bromofluorobenzene (S)	%	99	70-130	05/07/21 14:56	
tert Butyl Methyl-d3 Ether (S)	%	103	70-130	05/07/21 14:56	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1032883 1032884

Parameter	Units	70171063001		1032884		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.05	0.05	0.051	0.050	101	100	70-130	1	30		
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.05	0.05	0.048	0.048	95	97	70-130	1	30		
1,2-Dichlorobenzene-d4 (S)	%						102	101	70-130				
4-Bromofluorobenzene (S)	%						99	98	70-130				
tert Butyl Methyl-d3 Ether (S)	%						102	102	70-130				

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS/POC 5/3
Pace Project No.: 70171385

QC Batch: 207585	Analysis Method: EPA 522
QC Batch Method: EPA 522	Analysis Description: 522 MSS 1,4 Dioxane
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70171385001

METHOD BLANK: 1032112 Matrix: Drinking Water
Associated Lab Samples: 70171385001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	05/07/21 15:54	
1,4-Dioxane-d8 (S)	%	95	70-130	05/07/21 15:54	

LABORATORY CONTROL SAMPLE: 1032113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4	3.8	94	70-130	
1,4-Dioxane-d8 (S)	%			89	70-130	

MATRIX SPIKE SAMPLE: 1032114

Parameter	Units	70171110002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	4	3.7	93	70-130	
1,4-Dioxane-d8 (S)	%				92	70-130	

SAMPLE DUPLICATE: 1032115

Parameter	Units	70171110003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	92	95		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

QC Batch:	207709	Analysis Method:	EPA 522
QC Batch Method:	EPA 522	Analysis Description:	522 MSS 1,4 Dioxane
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70171385002, 70171385003, 70171385004, 70171385005, 70171385007, 70171385009, 70171385011

METHOD BLANK: 1032525 Matrix: Drinking Water

Associated Lab Samples: 70171385002, 70171385003, 70171385004, 70171385005, 70171385007, 70171385009, 70171385011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	05/08/21 00:40	
1,4-Dioxane-d8 (S)	%	94	70-130	05/08/21 00:40	

MATRIX SPIKE SAMPLE: 1032527

Parameter	Units	70171385002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.67	0.02	0.70	181	70-130	M0
1,4-Dioxane-d8 (S)	%				89	70-130	

SAMPLE DUPLICATE: 1032528

Parameter	Units	70171507001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.67	0.67	0	20	
1,4-Dioxane-d8 (S)	%	90	92		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

QC Batch: 726895

Analysis Method: EPA 537.1

QC Batch Method: EPA 537.1

Analysis Description: 537.1 PFOA Compounds, Water

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70171385001, 70171385002, 70171385003, 70171385004, 70171385005, 70171385006, 70171385007, 70171385008, 70171385009, 70171385010, 70171385011

METHOD BLANK: 3961768

Matrix: Water

Associated Lab Samples: 70171385001, 70171385002, 70171385003, 70171385004, 70171385005, 70171385006, 70171385007, 70171385008, 70171385009, 70171385010, 70171385011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	05/09/21 06:29	
Perfluoroheptanoic acid	ng/L	ND	2.0	05/09/21 06:29	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	05/09/21 06:29	
Perfluorononanoic acid	ng/L	ND	2.0	05/09/21 06:29	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	05/09/21 06:29	
Perfluorooctanoic acid	ng/L	ND	2.0	05/09/21 06:29	
13C2-PFDA (S)	%	95	70-130	05/09/21 06:29	
13C2-PFHxA (S)	%	94	70-130	05/09/21 06:29	
HFPO-DAS (S)	%	87	70-130	05/09/21 06:29	
NEtFOSAA-d5 (S)	%	90	70-130	05/09/21 06:29	

LABORATORY CONTROL SAMPLE: 3961769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	6.6	93	70-130	
Perfluoroheptanoic acid	ng/L	8	7.5	94	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	6.6	90	70-130	
Perfluorononanoic acid	ng/L	8	7.3	91	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	7.3	98	70-130	
Perfluorooctanoic acid	ng/L	8	7.7	96	70-130	
13C2-PFDA (S)	%			94	70-130	
13C2-PFHxA (S)	%			95	70-130	
HFPO-DAS (S)	%			86	70-130	
NEtFOSAA-d5 (S)	%			97	70-130	

LABORATORY CONTROL SAMPLE: 3961770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.5J	86	50-150	
Perfluoroheptanoic acid	ng/L	2	1.9J	94	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.7J	94	50-150	
Perfluorononanoic acid	ng/L	2	2.0	100	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	2.2	121	50-150	
Perfluorooctanoic acid	ng/L	2	2.1	104	50-150	
13C2-PFDA (S)	%			102	70-130	
13C2-PFHxA (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

LABORATORY CONTROL SAMPLE: 3961770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
HFPO-DAS (S)	%			97	70-130	
NEtFOSAA-d5 (S)	%			118	70-130	

MATRIX SPIKE SAMPLE: 3961771

Parameter	Units	70171385011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	1.7	3.5	94	70-130	
Perfluoroheptanoic acid	ng/L	3.2	1.9	4.7	76	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	1.7	3.1	95	70-130	
Perfluorononanoic acid	ng/L	2.3	1.9	3.9	85	70-130	
Perfluorooctanesulfonic acid	ng/L	4.1	1.8	5.5	80	70-130	
Perfluorooctanoic acid	ng/L	9.9	1.9	11.7	92	70-130	
13C2-PFDA (S)	%				104	70-130	
13C2-PFHxA (S)	%				95	70-130	
HFPO-DAS (S)	%				88	70-130	
NEtFOSAA-d5 (S)	%				107	70-130	

SAMPLE DUPLICATE: 3961772

Parameter	Units	70171385008 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluoroheptanoic acid	ng/L	<1.8	<1.9		30	
Perfluorohexanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluorononanoic acid	ng/L	<1.8	<1.9		30	
Perfluorooctanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluorooctanoic acid	ng/L	<1.8	<1.9		30	
13C2-PFDA (S)	%	111	112			
13C2-PFHxA (S)	%	100	102			
HFPO-DAS (S)	%	84	89			
NEtFOSAA-d5 (S)	%	113	120			

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

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QUALIFIERS

Project: 1,4 DIOXANE/PFAS/POC 5/3

Pace Project No.: 70171385

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.

WORKORDER QUALIFIERS

WO: 70171385

- [1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

SAMPLE QUALIFIERS

Sample: 70171385001

- [1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

ANALYTE QUALIFIERS

- IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS/POC 5/3
Pace Project No.: 70171385

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70171385001	N-09809	EPA 522	207585	EPA 522	207735
70171385002	GAC-09809	EPA 522	207709	EPA 522	207765
70171385003	N-02052	EPA 522	207709	EPA 522	207765
70171385004	GAC-02052	EPA 522	207709	EPA 522	207765
70171385005	N-06087	EPA 522	207709	EPA 522	207765
70171385007	N-02030	EPA 522	207709	EPA 522	207765
70171385009	N-05209	EPA 522	207709	EPA 522	207765
70171385011	N-04860	EPA 522	207709	EPA 522	207765
70171385002	GAC-09809	EPA 524.2	206651		
70171385004	GAC-02052	EPA 524.2	206651		
70171385006	GAC-SH1/SH2	EPA 524.2	206651		
70171385008	GAC-02030	EPA 524.2	206651		
70171385010	AS-05209	EPA 524.2	206651		
70171385003	N-02052	EPA 524.3	207725		
70171385004	GAC-02052	EPA 524.3	207725		
70171385001	N-09809	EPA 537.1	726895	EPA 537.1	727642
70171385002	GAC-09809	EPA 537.1	726895	EPA 537.1	727642
70171385003	N-02052	EPA 537.1	726895	EPA 537.1	727642
70171385004	GAC-02052	EPA 537.1	726895	EPA 537.1	727642
70171385005	N-06087	EPA 537.1	726895	EPA 537.1	727642
70171385006	GAC-SH1/SH2	EPA 537.1	726895	EPA 537.1	727642
70171385007	N-02030	EPA 537.1	726895	EPA 537.1	727642
70171385008	GAC-02030	EPA 537.1	726895	EPA 537.1	727642
70171385009	N-05209	EPA 537.1	726895	EPA 537.1	727642
70171385010	AS-05209	EPA 537.1	726895	EPA 537.1	727642
70171385011	N-04860	EPA 537.1	726895	EPA 537.1	727642

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 70171385

Client Name: Port Washington W.D.

PM: JSA Due Date: 05/13/21
CLIENT: PWW

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: T1091 Correction Factor: +0.0

Cooler Temperature(°C): 9.9 Cooler Temperature Corrected(°C): 9.9

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: 5/13/21 EU

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

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

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

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

Client Notification/ Resolution: _____

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

June 07, 2021

Supt. Tal Vacchio
Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050

RE: Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Dear Supt. Tal Vacchio:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 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 National - Mt. Juliet
- 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
Jim Van Horn
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Lisa Ortiz, D&B
Xavier Sardoni, D&B Engineers
Jasper Skliba, Port Washington W.D.
Reports User, Port Washington W.D.
Richard Zimbardi, Port Washington W.D.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236

Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Delaware Certification # NY10478
Virginia Certification # 460302
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16

Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Pace Analytical Services National

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70172326001	N-07552	Drinking Water	05/10/21 07:50	05/10/21 15:21
70172326002	N-13510	Drinking Water	05/10/21 08:18	05/10/21 15:21
70172326003	N-07551	Drinking Water	05/10/21 09:05	05/10/21 15:21
70172326004	AS-8/9/11	Drinking Water	05/10/21 09:30	05/10/21 15:21
70172326005	N-05876	Drinking Water	05/10/21 10:35	05/10/21 15:21
70172326006	N-01715	Drinking Water	05/10/21 11:25	05/10/21 15:21

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
70172326001	N-07552	EPA 200.7	KM1	8	PACE-MV		
		EPA 200.8	KS1	13	PACE-MV		
		SM22 9223B Colilert	GFD	2	PACE-MV		
		EPA 522	TJD	2	PACE-MV		
		EPA 524.2	KGG	62	PACE-MV		
		EPA 537.1	CMB	9	PASI-O		
		EPA 180.1	DGC	1	PACE-MV		
		EPA 314.0	ELN	1	PAN		
		SM22 2120B	SOA	2	PACE-MV		
		SM22 2150B	SOA	1	PACE-MV		
		SM22 2320B	DJM	1	PACE-MV		
		SM22 2540C	IT1	1	PACE-MV		
		SM22 5540C	DJM	2	PACE-MV		
		SM22 2330 LSI	AKS	1	PACE-MV		
		EPA 300.0	BNK	3	PACE-MV		
		EPA 353.2	PGL	2	PACE-MV		
		EPA 353.2	PGL	1	PACE-MV		
		SM22 4500 NH3 H	BNK	1	PACE-MV		
		ASTM D7237-10	MEM1	1	PACE-MV		
		70172326002	N-13510	EPA 200.7	KM1	8	PACE-MV
EPA 200.8	KS1			13	PACE-MV		
SM22 9223B Colilert	GFD			2	PACE-MV		
EPA 524.2	KGG			62	PACE-MV		
EPA 180.1	DGC			1	PACE-MV		
EPA 314.0	ELN			1	PAN		
SM22 2120B	SOA			2	PACE-MV		
SM22 2150B	SOA			1	PACE-MV		
SM22 2320B	DJM			1	PACE-MV		
SM22 2540C	IT1			1	PACE-MV		
SM22 5540C	DJM			2	PACE-MV		
SM22 2330 LSI	AKS			1	PACE-MV		
EPA 300.0	BNK			3	PACE-MV		
EPA 353.2	PGL			2	PACE-MV		
EPA 353.2	PGL			1	PACE-MV		
SM22 4500 NH3 H	BNK			1	PACE-MV		
ASTM D7237-10	MEM1			1	PACE-MV		
70172326003	N-07551			EPA 200.7	KM1	8	PACE-MV

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	KS1	13	PACE-MV
		SM22 9223B Colilert	GFD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 180.1	DGC	1	PACE-MV
		EPA 314.0	ELN	1	PAN
		SM22 2120B	SOA	2	PACE-MV
		SM22 2150B	SOA	1	PACE-MV
		SM22 2320B	DJM	1	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM22 5540C	DJM	2	PACE-MV
		SM22 2330 LSI	AKS	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		ASTM D7237-10	MEM1	1	PACE-MV
70172326004	AS-8/9/11	EPA 200.7	KM1	8	PACE-MV
		EPA 200.8	KS1	13	PACE-MV
		EPA 522	TJD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	CMB	9	PASI-O
		EPA 180.1	DGC	1	PACE-MV
		EPA 314.0	ELN	1	PAN
		SM22 2120B	SOA	2	PACE-MV
		SM22 2150B	SOA	1	PACE-MV
		SM22 2320B	DJM	1	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM22 5540C	DJM	2	PACE-MV
		SM22 2330 LSI	AKS	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		ASTM D7237-10	MEM1	1	PACE-MV
70172326005	N-05876	EPA 200.7	KM1	8	PACE-MV
		EPA 200.8	KS1	13	PACE-MV
		SM22 9223B Colilert	GFD	2	PACE-MV

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 524.2	KGG	62	PACE-MV
		EPA 180.1	DGC	1	PACE-MV
		EPA 314.0	ELN	1	PAN
		SM22 2120B	SOA	2	PACE-MV
		SM22 2150B	SOA	1	PACE-MV
		SM22 2320B	DJM	1	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM22 5540C	DJM	2	PACE-MV
		SM22 2330 LSI	AKS	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		ASTM D7237-10	MEM1	1	PACE-MV
70172326006	N-01715	EPA 200.7	KM1	8	PACE-MV
		EPA 200.8	KS1	13	PACE-MV
		SM22 9223B Colilert	GFD	2	PACE-MV
		EPA 522	TJD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	CMB	9	PASI-O
		EPA 180.1	DGC	1	PACE-MV
		EPA 314.0	ELN	1	PAN
		SM22 2120B	SOA	2	PACE-MV
		SM22 2150B	SOA	1	PACE-MV
		SM22 2320B	DJM	1	PACE-MV
		SM22 2540C	IT1	1	PACE-MV
		SM22 5540C	DJM	2	PACE-MV
		SM22 2330 LSI	AKS	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		ASTM D7237-10	MEM1	1	PACE-MV

PACE-MV = Pace Analytical Services - Melville

PAN = Pace National - Mt. Juliet

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Sample: N-07552 **Lab ID: 70172326001** **Collected: 05/10/21 07:50** Received: 05/10/21 15:21 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7 Pace Analytical Services - Melville									
Calcium	13.3	mg/L	0.20		1		05/11/21 17:59	7440-70-2	
Ca Hardness as CaCO ₃ (SM 2340B)	33.2	mg/L	0.50		1		05/11/21 17:59		
Iron	<0.020	mg/L	0.020		1		05/11/21 17:59	7439-89-6	
Magnesium	7.9	mg/L	0.20		1		05/11/21 17:59	7439-95-4	
Manganese	<0.010	mg/L	0.010		1		05/11/21 17:59	7439-96-5	
Sodium	18.7	mg/L	0.20		1		05/11/21 17:59	7440-23-5	
Tot Hardness as CaCO ₃ (SM 2340B)	65.8	mg/L	0.83		1		05/11/21 17:59		N3
Zinc	0.12	mg/L	0.020		1		05/11/21 17:59	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8 Pace Analytical Services - Melville									
Antimony	<0.40	ug/L	0.40		1		05/21/21 14:06	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		05/21/21 14:06	7440-38-2	
Barium	0.021	mg/L	0.0020		1		05/21/21 14:06	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		05/21/21 14:06	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		05/21/21 14:06	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		05/21/21 14:06	7440-47-3	
Copper	0.0084	mg/L	0.0020		1		05/21/21 14:06	7440-50-8	
Lead	<1.0	ug/L	1.0		1		05/21/21 14:06	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		05/21/21 14:06	7439-97-6	
Nickel	0.0028	mg/L	0.00050		1		05/21/21 14:06	7440-02-0	
Selenium	2.3	ug/L	2.0		1		05/21/21 14:06	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		05/21/21 14:06	7440-22-4	M1
Thallium	<0.30	ug/L	0.30		1		05/21/21 14:06	7440-28-0	
MBIO Total Coliform DW									
Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert Pace Analytical Services - Melville									
Total Coliforms	Absent				1	05/10/21 16:15	05/11/21 10:15		
E.coli	Absent				1	05/10/21 16:15	05/11/21 10:15		
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	6.5	ug/L	0.10		5	05/13/21 08:45	05/14/21 13:54	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		5	05/13/21 08:45	05/14/21 13:54		
524.2 MSV									
Analytical Method: EPA 524.2 Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		05/21/21 18:44	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/21/21 18:44	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/21/21 18:44	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		05/21/21 18:44	75-25-2	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Project No.: 70172326

Sample: N-07552 **Lab ID: 70172326001** Collected: 05/10/21 07:50 Received: 05/10/21 15:21 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									
Bromomethane	<0.50	ug/L	0.50		1		05/21/21 18:44	74-83-9	L2,v3
n-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/21/21 18:44	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/21/21 18:44	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/21/21 18:44	75-00-3	v3
Chloroform	1.2	ug/L	0.50		1		05/21/21 18:44	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/21/21 18:44	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/21/21 18:44	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/21/21 18:44	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/21/21 18:44	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/21/21 18:44	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/21/21 18:44	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		05/21/21 18:44	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/21/21 18:44	107-06-2	
1,1-Dichloroethene	6.0	ug/L	0.50		1		05/21/21 18:44	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 18:44	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 18:44	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 18:44	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 18:44	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 18:44	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 18:44	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 18:44	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 18:44	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/21/21 18:44	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/21/21 18:44	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/21/21 18:44	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/21/21 18:44	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		05/21/21 18:44	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/21/21 18:44	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/21/21 18:44	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/21/21 18:44	79-34-5	
Tetrachloroethene	23.1	ug/L	0.50		1		05/21/21 18:44	127-18-4	
Toluene	<0.50	ug/L	0.50		1		05/21/21 18:44	108-88-3	
Total Trihalomethanes (Calc.)	1.2	ug/L	0.50		1		05/21/21 18:44		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	120-82-1	
1,1,1-Trichloroethane	1.3	ug/L	0.50		1		05/21/21 18:44	71-55-6	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Sample: N-07552 Lab ID: 70172326001 Collected: 05/10/21 07:50 Received: 05/10/21 15:21 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									
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/21/21 18:44	79-00-5	
Trichloroethene	4.4	ug/L	0.50		1		05/21/21 18:44	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/21/21 18:44	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/21/21 18:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/21/21 18:44	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:44	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/21/21 18:44	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/21/21 18:44	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/21/21 18:44	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		05/21/21 18:44	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130		1		05/21/21 18:44	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	05/13/21 16:02	05/16/21 00:56	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	05/13/21 16:02	05/16/21 00:56	375-85-9	
Perfluorohexanesulfonic acid	3.0	ng/L	1.9		1	05/13/21 16:02	05/16/21 00:56	355-46-4	
Perfluorononanoic acid	6.6	ng/L	1.9		1	05/13/21 16:02	05/16/21 00:56	375-95-1	
Perfluorooctanesulfonic acid	4.9	ng/L	1.9		10	05/13/21 16:02	05/16/21 00:56	1763-23-1	
Perfluorooctanoic acid	4.7	ng/L	1.9		10	05/13/21 16:02	05/16/21 00:56	335-67-1	
Surrogates									
13C2-PFDA (S)	111	%	70-130		1	05/13/21 16:02	05/16/21 00:56		
13C2-PFHxA (S)	104	%	70-130		1	05/13/21 16:02	05/16/21 00:56		
HFPO-DAS (S)	99	%	70-130		1	05/13/21 16:02	05/16/21 00:56		
180.1 Turbidity									
Analytical Method: EPA 180.1 Pace Analytical Services - Melville									
Turbidity	<1.0	NTU	1.0		1		05/11/21 13:08		
Wet Chemistry 314.0 Mod									
Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod Pace National - Mt. Juliet									
Perchlorate	<4.00	ug/L	4.00		1	05/17/21 17:49	05/17/21 17:49	14797-73-0	
2120B W Apparent Color									
Analytical Method: SM22 2120B Pace Analytical Services - Melville									
Apparent Color	<5.0	units	5.0		1		05/11/21 17:51		
pH	6.6	Std. Units	0.10		1		05/11/21 17:51		
2150B Threshold Odor Number									
Analytical Method: SM22 2150B Pace Analytical Services - Melville									
Odor @ 60 Degrees C	No odor observed		1.0		1		05/10/21 18:15		

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Sample: N-07552 Lab ID: 70172326001 Collected: 05/10/21 07:50 Received: 05/10/21 15:21 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity									
Analytical Method: SM22 2320B Pace Analytical Services - Melville									
Alkalinity, Total as CaCO3	26.2	mg/L	1.0		1		05/23/21 12:14		
2540C Total Dissolved Solids									
Analytical Method: SM22 2540C Pace Analytical Services - Melville									
Total Dissolved Solids	202	mg/L	20.0		1		05/15/21 14:06		
5540C MBAS Surfactants									
Analytical Method: SM22 5540C Preparation Method: SM22 5540C Pace Analytical Services - Melville									
LAS Molecular Weight, g/mol	320				1	05/11/21 17:36	05/11/21 17:39		
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	05/11/21 17:36	05/11/21 17:39		
Langelier Saturation Index									
Analytical Method: SM22 2330 LSI Pace Analytical Services - Melville									
Corrosivity	-3.23				1		05/24/21 18:46		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Melville									
Chloride	35.1	mg/L	2.0		1		05/21/21 16:59	16887-00-6	
Fluoride	<0.10	mg/L	0.10		1		05/21/21 16:59	16984-48-8	
Sulfate	20.4	mg/L	5.0		1		05/21/21 16:59	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrate as N	3.7	mg/L	0.25		5		05/12/21 00:33	14797-55-8	
Nitrate-Nitrite (as N)	3.7	mg/L	0.25		5		05/12/21 00:33	7727-37-9	
353.2 Nitrogen, NO2									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrite as N	<0.050	mg/L	0.050		1		05/11/21 22:17	14797-65-0	
4500 Ammonia Water									
Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville									
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		05/21/21 12:57	7664-41-7	
Cyanide, Free									
Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville									
Cyanide, Free	<10.0	ug/L	10.0		1		05/19/21 11:18	57-12-5	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Sample: N-13510 **Lab ID: 70172326002** Collected: 05/10/21 08:18 Received: 05/10/21 15:21 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7									
Pace Analytical Services - Melville									
Calcium	20.5	mg/L	0.20		1		05/11/21 18:01	7440-70-2	
Ca Hardness as CaCO ₃ (SM 2340B)	51.2	mg/L	0.50		1		05/11/21 18:01		
Iron	<0.020	mg/L	0.020		1		05/11/21 18:01	7439-89-6	
Magnesium	12.4	mg/L	0.20		1		05/11/21 18:01	7439-95-4	
Manganese	<0.010	mg/L	0.010		1		05/11/21 18:01	7439-96-5	
Sodium	23.3	mg/L	0.20		1		05/11/21 18:01	7440-23-5	
Tot Hardness as CaCO ₃ (SM 2340B)	102	mg/L	0.83		1		05/11/21 18:01		N3
Zinc	0.028	mg/L	0.020		1		05/11/21 18:01	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8									
Pace Analytical Services - Melville									
Antimony	<0.40	ug/L	0.40		1		05/21/21 14:11	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		05/21/21 14:11	7440-38-2	
Barium	0.041	mg/L	0.0020		1		05/21/21 14:11	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		05/21/21 14:11	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		05/21/21 14:11	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		05/21/21 14:11	7440-47-3	
Copper	0.0097	mg/L	0.0020		1		05/21/21 14:11	7440-50-8	
Lead	<1.0	ug/L	1.0		1		05/21/21 14:11	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		05/21/21 14:11	7439-97-6	
Nickel	0.0016	mg/L	0.00050		1		05/21/21 14:11	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		05/21/21 14:11	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		05/21/21 14:11	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		05/21/21 14:11	7440-28-0	
MBIO Total Coliform DW									
Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert									
Pace Analytical Services - Melville									
Total Coliforms	Absent				1	05/10/21 16:15	05/11/21 10:15		
E.coli	Absent				1	05/10/21 16:15	05/11/21 10:15		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		05/21/21 19:12	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/21/21 19:12	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/21/21 19:12	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		05/21/21 19:12	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		05/21/21 19:12	74-83-9	L2,v3
n-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/21/21 19:12	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	108-90-7	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Sample: N-13510 **Lab ID: 70172326002** Collected: 05/10/21 08:18 Received: 05/10/21 15:21 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									
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/21/21 19:12	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/21/21 19:12	75-00-3	v3
Chloroform	0.78	ug/L	0.50		1		05/21/21 19:12	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/21/21 19:12	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/21/21 19:12	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/21/21 19:12	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/21/21 19:12	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/21/21 19:12	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/21/21 19:12	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		05/21/21 19:12	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/21/21 19:12	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 19:12	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 19:12	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 19:12	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 19:12	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 19:12	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 19:12	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 19:12	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 19:12	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 19:12	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/21/21 19:12	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/21/21 19:12	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/21/21 19:12	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/21/21 19:12	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		05/21/21 19:12	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/21/21 19:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/21/21 19:12	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/21/21 19:12	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		05/21/21 19:12	127-18-4	
Toluene	<0.50	ug/L	0.50		1		05/21/21 19:12	108-88-3	
Total Trihalomethanes (Calc.)	0.78	ug/L	0.50		1		05/21/21 19:12		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		05/21/21 19:12	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/21/21 19:12	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		05/21/21 19:12	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/21/21 19:12	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/21/21 19:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/21/21 19:12	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	95-63-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Sample: N-13510	Lab ID: 70172326002	Collected: 05/10/21 08:18	Received: 05/10/21 15:21	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									
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:12	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/21/21 19:12	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/21/21 19:12	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/21/21 19:12	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	83	%	70-130		1		05/21/21 19:12	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130		1		05/21/21 19:12	460-00-4	
180.1 Turbidity									
Analytical Method: EPA 180.1									
Pace Analytical Services - Melville									
Turbidity	<1.0	NTU	1.0		1		05/11/21 13:09		
Wet Chemistry 314.0 Mod									
Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod									
Pace National - Mt. Juliet									
Perchlorate	<4.00	ug/L	4.00		1	05/17/21 18:12	05/17/21 18:12	14797-73-0	
2120B W Apparent Color									
Analytical Method: SM22 2120B									
Pace Analytical Services - Melville									
Apparent Color	<5.0	units	5.0		1		05/11/21 17:51		
pH	6.6	Std. Units	0.10		1		05/11/21 17:51		
2150B Threshold Odor Number									
Analytical Method: SM22 2150B									
Pace Analytical Services - Melville									
Odor @ 60 Degrees C	No odor observed		1.0		1		05/10/21 18:16		
2320B Alkalinity									
Analytical Method: SM22 2320B									
Pace Analytical Services - Melville									
Alkalinity, Total as CaCO3	40.0	mg/L	1.0		1		05/23/21 12:35		
2540C Total Dissolved Solids									
Analytical Method: SM22 2540C									
Pace Analytical Services - Melville									
Total Dissolved Solids	200	mg/L	20.0		1		05/15/21 14:07		
5540C MBAS Surfactants									
Analytical Method: SM22 5540C Preparation Method: SM22 5540C									
Pace Analytical Services - Melville									
LAS Molecular Weight, g/mol	320				1	05/11/21 17:36	05/11/21 17:39		
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	05/11/21 17:36	05/11/21 17:39		
Langelier Saturation Index									
Analytical Method: SM22 2330 LSI									
Pace Analytical Services - Melville									
Corrosivity	-2.86				1		05/24/21 18:46		

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Sample: N-13510		Lab ID: 70172326002		Collected: 05/10/21 08:18	Received: 05/10/21 15:21	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	55.5	mg/L	2.0		1		05/21/21 17:12	16887-00-6	
Fluoride	<0.10	mg/L	0.10		1		05/21/21 17:12	16984-48-8	
Sulfate	24.3	mg/L	5.0		1		05/21/21 17:12	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	3.8	mg/L	0.25		5		05/12/21 00:37	14797-55-8	
Nitrate-Nitrite (as N)	3.8	mg/L	0.25		5		05/12/21 00:37	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050		1		05/11/21 22:21	14797-65-0	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		05/21/21 12:58	7664-41-7	
Cyanide, Free		Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville							
Cyanide, Free	<10.0	ug/L	10.0		1		05/19/21 11:22	57-12-5	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Sample: N-07551 **Lab ID: 70172326003** Collected: 05/10/21 09:05 Received: 05/10/21 15:21 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7									
Pace Analytical Services - Melville									
Calcium	18.9	mg/L	0.20		1		05/11/21 18:02	7440-70-2	
Ca Hardness as CaCO ₃ (SM 2340B)	47.2	mg/L	0.50		1		05/11/21 18:02		
Iron	<0.020	mg/L	0.020		1		05/11/21 18:02	7439-89-6	
Magnesium	10.8	mg/L	0.20		1		05/11/21 18:02	7439-95-4	
Manganese	<0.010	mg/L	0.010		1		05/11/21 18:02	7439-96-5	
Sodium	23.6	mg/L	0.20		1		05/11/21 18:02	7440-23-5	
Tot Hardness as CaCO ₃ (SM 2340B)	91.7	mg/L	0.83		1		05/11/21 18:02		N3
Zinc	0.028	mg/L	0.020		1		05/11/21 18:02	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8									
Pace Analytical Services - Melville									
Antimony	<0.40	ug/L	0.40		1		05/21/21 14:13	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		05/21/21 14:13	7440-38-2	
Barium	0.032	mg/L	0.0020		1		05/21/21 14:13	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		05/21/21 14:13	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		05/21/21 14:13	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		05/21/21 14:13	7440-47-3	
Copper	<0.0020	mg/L	0.0020		1		05/21/21 14:13	7440-50-8	
Lead	<1.0	ug/L	1.0		1		05/21/21 14:13	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		05/21/21 14:13	7439-97-6	
Nickel	0.0020	mg/L	0.00050		1		05/21/21 14:13	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		05/21/21 14:13	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		05/21/21 14:13	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		05/21/21 14:13	7440-28-0	
MBIO Total Coliform DW									
Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert									
Pace Analytical Services - Melville									
Total Coliforms	Absent				1	05/10/21 16:15	05/11/21 10:15		
E.coli	Absent				1	05/10/21 16:15	05/11/21 10:15		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		05/21/21 19:40	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/21/21 19:40	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/21/21 19:40	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		05/21/21 19:40	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		05/21/21 19:40	74-83-9	L2,v3
n-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/21/21 19:40	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Sample: N-07551 **Lab ID: 70172326003** Collected: 05/10/21 09:05 Received: 05/10/21 15:21 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									
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/21/21 19:40	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/21/21 19:40	75-00-3	v3
Chloroform	0.76	ug/L	0.50		1		05/21/21 19:40	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/21/21 19:40	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/21/21 19:40	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/21/21 19:40	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/21/21 19:40	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/21/21 19:40	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/21/21 19:40	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		05/21/21 19:40	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/21/21 19:40	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 19:40	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 19:40	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 19:40	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 19:40	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 19:40	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 19:40	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 19:40	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 19:40	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 19:40	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/21/21 19:40	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/21/21 19:40	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/21/21 19:40	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/21/21 19:40	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		05/21/21 19:40	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/21/21 19:40	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/21/21 19:40	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/21/21 19:40	79-34-5	
Tetrachloroethene	4.5	ug/L	0.50		1		05/21/21 19:40	127-18-4	
Toluene	<0.50	ug/L	0.50		1		05/21/21 19:40	108-88-3	
Total Trihalomethanes (Calc.)	0.76	ug/L	0.50		1		05/21/21 19:40		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		05/21/21 19:40	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/21/21 19:40	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		05/21/21 19:40	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/21/21 19:40	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/21/21 19:40	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/21/21 19:40	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	95-63-6	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Sample: N-07551	Lab ID: 70172326003	Collected: 05/10/21 09:05	Received: 05/10/21 15:21	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								
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/21/21 19:40	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/21/21 19:40	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/21/21 19:40	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/21/21 19:40	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	87	%	70-130		1		05/21/21 19:40	2199-69-1	
4-Bromofluorobenzene (S)	89	%	70-130		1		05/21/21 19:40	460-00-4	
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Melville								
Turbidity	<1.0	NTU	1.0		1		05/11/21 13:10		
Wet Chemistry 314.0 Mod	Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod Pace National - Mt. Juliet								
Perchlorate	<4.00	ug/L	4.00		1	05/17/21 18:35	05/17/21 18:35	14797-73-0	
2120B W Apparent Color	Analytical Method: SM22 2120B Pace Analytical Services - Melville								
Apparent Color	<5.0	units	5.0		1		05/11/21 17:51		
pH	6.7	Std. Units	0.10		1		05/11/21 17:51		
2150B Threshold Odor Number	Analytical Method: SM22 2150B Pace Analytical Services - Melville								
Odor @ 60 Degrees C	No odor observed		1.0		1		05/10/21 18:16		
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville								
Alkalinity, Total as CaCO3	32.4	mg/L	1.0		1		05/23/21 12:41		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C Pace Analytical Services - Melville								
Total Dissolved Solids	190	mg/L	20.0		1		05/15/21 14:19		
5540C MBAS Surfactants	Analytical Method: SM22 5540C Preparation Method: SM22 5540C Pace Analytical Services - Melville								
LAS Molecular Weight, g/mol	320				1	05/11/21 17:36	05/11/21 17:39		
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	05/11/21 17:36	05/11/21 17:39		
Langelier Saturation Index	Analytical Method: SM22 2330 LSI Pace Analytical Services - Melville								
Corrosivity	-2.99				1		05/24/21 18:46		

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Sample: N-07551 Lab ID: 70172326003 Collected: 05/10/21 09:05 Received: 05/10/21 15:21 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Melville									
Chloride	52.7	mg/L	2.0		1		05/21/21 17:26	16887-00-6	
Fluoride	<0.10	mg/L	0.10		1		05/21/21 17:26	16984-48-8	
Sulfate	24.2	mg/L	5.0		1		05/21/21 17:26	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrate as N	3.7	mg/L	0.25		5		05/12/21 00:43	14797-55-8	
Nitrate-Nitrite (as N)	3.7	mg/L	0.25		5		05/12/21 00:43	7727-37-9	
353.2 Nitrogen, NO2									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrite as N	<0.050	mg/L	0.050		1		05/11/21 22:22	14797-65-0	
4500 Ammonia Water									
Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville									
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		05/21/21 12:59	7664-41-7	
Cyanide, Free									
Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville									
Cyanide, Free	<10.0	ug/L	10.0		1		05/19/21 11:34	57-12-5	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Sample:	AS-8/9/11	Lab ID:	70172326004	Collected:	05/10/21 09:30	Received:	05/10/21 15:21	Matrix:	Drinking Water
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Chlorine and pH									
Analytical Method: Pace Analytical Services - Melville									
Field Temperature	13.3	deg C			1		05/10/21 09:30		N3
Field pH	7.7	Std. Units			1		05/10/21 09:30		N3
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7 Pace Analytical Services - Melville									
Calcium	18.0	mg/L	0.20		1		05/11/21 18:04	7440-70-2	
Ca Hardness as CaCO ₃ (SM 2340B)	44.9	mg/L	0.50		1		05/11/21 18:04		
Iron	<0.020	mg/L	0.020		1		05/11/21 18:04	7439-89-6	
Magnesium	10.1	mg/L	0.20		1		05/11/21 18:04	7439-95-4	
Manganese	<0.010	mg/L	0.010		1		05/11/21 18:04	7439-96-5	
Sodium	22.3	mg/L	0.20		1		05/11/21 18:04	7440-23-5	
Tot Hardness as CaCO ₃ (SM 2340B)	86.5	mg/L	0.83		1		05/11/21 18:04		N3
Zinc	<0.020	mg/L	0.020		1		05/11/21 18:04	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8 Pace Analytical Services - Melville									
Antimony	<0.40	ug/L	0.40		1		05/21/21 14:14	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		05/21/21 14:14	7440-38-2	
Barium	0.032	mg/L	0.0020		1		05/21/21 14:14	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		05/21/21 14:14	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		05/21/21 14:14	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		05/21/21 14:14	7440-47-3	
Copper	0.0042	mg/L	0.0020		1		05/21/21 14:14	7440-50-8	
Lead	<1.0	ug/L	1.0		1		05/21/21 14:14	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		05/21/21 14:14	7439-97-6	
Nickel	0.0011	mg/L	0.00050		1		05/21/21 14:14	7440-02-0	
Selenium	2.2	ug/L	2.0		1		05/21/21 14:14	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		05/21/21 14:14	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		05/21/21 14:14	7440-28-0	
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	2.3	ug/L	0.020		1	05/13/21 08:45	05/13/21 22:46	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	05/13/21 08:45	05/13/21 22:46		
524.2 MSV									
Analytical Method: EPA 524.2 Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		05/21/21 18:17	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/21/21 18:17	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/21/21 18:17	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		05/21/21 18:17	75-25-2	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Project No.: 70172326

Sample: AS-8/9/11 Lab ID: 70172326004 Collected: 05/10/21 09:30 Received: 05/10/21 15:21 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									
Bromomethane	<0.50	ug/L	0.50		1		05/21/21 18:17	74-83-9	L2,v3
n-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/21/21 18:17	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/21/21 18:17	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/21/21 18:17	75-00-3	v3
Chloroform	<0.50	ug/L	0.50		1		05/21/21 18:17	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/21/21 18:17	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/21/21 18:17	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/21/21 18:17	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/21/21 18:17	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/21/21 18:17	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/21/21 18:17	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		05/21/21 18:17	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/21/21 18:17	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 18:17	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 18:17	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 18:17	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 18:17	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 18:17	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 18:17	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 18:17	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 18:17	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 18:17	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/21/21 18:17	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/21/21 18:17	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/21/21 18:17	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/21/21 18:17	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		05/21/21 18:17	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/21/21 18:17	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/21/21 18:17	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/21/21 18:17	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		05/21/21 18:17	127-18-4	
Toluene	<0.50	ug/L	0.50		1		05/21/21 18:17	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		05/21/21 18:17		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		05/21/21 18:17	71-55-6	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Sample: AS-8/9/11 Lab ID: 70172326004 Collected: 05/10/21 09:30 Received: 05/10/21 15:21 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									
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/21/21 18:17	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		05/21/21 18:17	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/21/21 18:17	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/21/21 18:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/21/21 18:17	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/21/21 18:17	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/21/21 18:17	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/21/21 18:17	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/21/21 18:17	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	79	%	70-130		1		05/21/21 18:17	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130		1		05/21/21 18:17	460-00-4	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach									
Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	05/13/21 16:02	05/15/21 01:25	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	05/13/21 16:02	05/15/21 01:25	375-85-9	
Perfluorohexanesulfonic acid	2.9	ng/L	1.9		1	05/13/21 16:02	05/15/21 01:25	355-46-4	
Perfluorononanoic acid	2.7	ng/L	1.9		1	05/13/21 16:02	05/15/21 01:25	375-95-1	
Perfluorooctanesulfonic acid	4.2	ng/L	1.9		10	05/13/21 16:02	05/15/21 01:25	1763-23-1	
Perfluorooctanoic acid	5.3	ng/L	1.9		10	05/13/21 16:02	05/15/21 01:25	335-67-1	
Surrogates									
13C2-PFDA (S)	95	%	70-130		1	05/13/21 16:02	05/15/21 01:25		
13C2-PFHxA (S)	97	%	70-130		1	05/13/21 16:02	05/15/21 01:25		
HFPO-DAS (S)	81	%	70-130		1	05/13/21 16:02	05/15/21 01:25		
180.1 Turbidity									
Analytical Method: EPA 180.1 Pace Analytical Services - Melville									
Turbidity	<1.0	NTU	1.0		1		05/11/21 13:11		
Wet Chemistry 314.0 Mod									
Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod Pace National - Mt. Juliet									
Perchlorate	<4.00	ug/L	4.00		1	05/17/21 18:58	05/17/21 18:58	14797-73-0	
2120B W Apparent Color									
Analytical Method: SM22 2120B Pace Analytical Services - Melville									
Apparent Color	<5.0	units	5.0		1		05/11/21 17:51		
pH	7.0	Std. Units	0.10		1		05/11/21 17:51		
2150B Threshold Odor Number									
Analytical Method: SM22 2150B Pace Analytical Services - Melville									
Odor @ 60 Degrees C	No odor observed		1.0		1		05/10/21 18:16		

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Sample: AS-8/9/11 Lab ID: 70172326004 Collected: 05/10/21 09:30 Received: 05/10/21 15:21 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity									
Analytical Method: SM22 2320B Pace Analytical Services - Melville									
Alkalinity, Total as CaCO3	32.8	mg/L	1.0		1		05/23/21 12:47		
2540C Total Dissolved Solids									
Analytical Method: SM22 2540C Pace Analytical Services - Melville									
Total Dissolved Solids	194	mg/L	20.0		1		05/15/21 14:19		
5540C MBAS Surfactants									
Analytical Method: SM22 5540C Preparation Method: SM22 5540C Pace Analytical Services - Melville									
LAS Molecular Weight, g/mol	320				1	05/11/21 17:36	05/11/21 17:39		
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	05/11/21 17:36	05/11/21 17:39		
Langelier Saturation Index									
Analytical Method: SM22 2330 LSI Pace Analytical Services - Melville									
Corrosivity	-1.19				1		05/24/21 18:46		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Melville									
Chloride	48.2	mg/L	2.0		1		05/21/21 17:39	16887-00-6	
Fluoride	<0.10	mg/L	0.10		1		05/21/21 17:39	16984-48-8	
Sulfate	22.9	mg/L	5.0		1		05/21/21 17:39	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrate as N	4.5	mg/L	0.25		5		05/12/21 00:46	14797-55-8	
Nitrate-Nitrite (as N)	4.5	mg/L	0.25		5		05/12/21 00:46	7727-37-9	
353.2 Nitrogen, NO2									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrite as N	<0.050	mg/L	0.050		1		05/11/21 22:26	14797-65-0	
4500 Ammonia Water									
Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville									
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		05/21/21 13:00	7664-41-7	
Cyanide, Free									
Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville									
Cyanide, Free	<10.0	ug/L	10.0		1		05/19/21 11:38	57-12-5	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Sample: N-05876 **Lab ID: 70172326005** Collected: 05/10/21 10:35 Received: 05/10/21 15:21 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7									
Pace Analytical Services - Melville									
Calcium	20.3	mg/L	0.20		1		05/11/21 18:06	7440-70-2	
Ca Hardness as CaCO ₃ (SM 2340B)	50.7	mg/L	0.50		1		05/11/21 18:06		
Iron	<0.020	mg/L	0.020		1		05/11/21 18:06	7439-89-6	
Magnesium	12.5	mg/L	0.20		1		05/11/21 18:06	7439-95-4	
Manganese	<0.010	mg/L	0.010		1		05/11/21 18:06	7439-96-5	
Sodium	18.0	mg/L	0.20		1		05/11/21 18:06	7440-23-5	
Tot Hardness as CaCO ₃ (SM 2340B)	102	mg/L	0.83		1		05/11/21 18:06		N3
Zinc	<0.020	mg/L	0.020		1		05/11/21 18:06	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8									
Pace Analytical Services - Melville									
Antimony	<0.40	ug/L	0.40		1		05/21/21 14:19	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		05/21/21 14:19	7440-38-2	
Barium	0.022	mg/L	0.0020		1		05/21/21 14:19	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		05/21/21 14:19	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		05/21/21 14:19	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		05/21/21 14:19	7440-47-3	
Copper	0.011	mg/L	0.0020		1		05/21/21 14:19	7440-50-8	
Lead	<1.0	ug/L	1.0		1		05/21/21 14:19	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		05/21/21 14:19	7439-97-6	
Nickel	0.0010	mg/L	0.00050		1		05/21/21 14:19	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		05/21/21 14:19	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		05/21/21 14:19	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		05/21/21 14:19	7440-28-0	
MBIO Total Coliform DW									
Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert									
Pace Analytical Services - Melville									
Total Coliforms	Absent				1	05/10/21 16:15	05/11/21 10:15		
E.coli	Absent				1	05/10/21 16:15	05/11/21 10:15		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		05/21/21 20:08	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/21/21 20:08	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/21/21 20:08	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		05/21/21 20:08	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		05/21/21 20:08	74-83-9	L2,v3
n-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/21/21 20:08	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Sample: N-05876 **Lab ID: 70172326005** Collected: 05/10/21 10:35 Received: 05/10/21 15:21 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									
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/21/21 20:08	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/21/21 20:08	75-00-3	v3
Chloroform	<0.50	ug/L	0.50		1		05/21/21 20:08	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/21/21 20:08	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/21/21 20:08	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/21/21 20:08	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/21/21 20:08	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/21/21 20:08	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/21/21 20:08	75-71-8	
1,1-Dichloroethane	0.53	ug/L	0.50		1		05/21/21 20:08	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/21/21 20:08	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 20:08	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 20:08	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 20:08	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 20:08	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 20:08	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 20:08	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 20:08	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 20:08	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 20:08	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/21/21 20:08	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/21/21 20:08	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/21/21 20:08	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/21/21 20:08	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		05/21/21 20:08	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/21/21 20:08	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/21/21 20:08	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/21/21 20:08	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		05/21/21 20:08	127-18-4	
Toluene	<0.50	ug/L	0.50		1		05/21/21 20:08	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		05/21/21 20:08		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		05/21/21 20:08	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/21/21 20:08	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		05/21/21 20:08	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/21/21 20:08	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/21/21 20:08	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/21/21 20:08	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	95-63-6	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Sample: N-05876	Lab ID: 70172326005	Collected: 05/10/21 10:35	Received: 05/10/21 15:21	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									
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:08	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/21/21 20:08	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/21/21 20:08	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/21/21 20:08	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	83	%	70-130		1		05/21/21 20:08	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130		1		05/21/21 20:08	460-00-4	
180.1 Turbidity									
Analytical Method: EPA 180.1									
Pace Analytical Services - Melville									
Turbidity	<1.0	NTU	1.0		1		05/11/21 13:12		
Wet Chemistry 314.0 Mod									
Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod									
Pace National - Mt. Juliet									
Perchlorate	<4.00	ug/L	4.00		1	05/17/21 20:07	05/17/21 20:07	14797-73-0	
2120B W Apparent Color									
Analytical Method: SM22 2120B									
Pace Analytical Services - Melville									
Apparent Color	<5.0	units	5.0		1		05/11/21 17:51		
pH	6.5	Std. Units	0.10		1		05/11/21 17:51		
2150B Threshold Odor Number									
Analytical Method: SM22 2150B									
Pace Analytical Services - Melville									
Odor @ 60 Degrees C	No odor observed		1.0		1		05/10/21 18:16		
2320B Alkalinity									
Analytical Method: SM22 2320B									
Pace Analytical Services - Melville									
Alkalinity, Total as CaCO3	48.6	mg/L	1.0		1		05/23/21 12:54		
2540C Total Dissolved Solids									
Analytical Method: SM22 2540C									
Pace Analytical Services - Melville									
Total Dissolved Solids	168	mg/L	20.0		1		05/15/21 14:19		
5540C MBAS Surfactants									
Analytical Method: SM22 5540C Preparation Method: SM22 5540C									
Pace Analytical Services - Melville									
LAS Molecular Weight, g/mol	320				1	05/11/21 17:36	05/11/21 17:39		
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	05/11/21 17:36	05/11/21 17:39		
Langelier Saturation Index									
Analytical Method: SM22 2330 LSI									
Pace Analytical Services - Melville									
Corrosivity	-2.68				1		05/24/21 18:46		

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Sample: N-05876		Lab ID: 70172326005		Collected: 05/10/21 10:35	Received: 05/10/21 15:21	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	35.0	mg/L	2.0		1		05/21/21 17:53	16887-00-6	
Fluoride	<0.10	mg/L	0.10		1		05/21/21 17:53	16984-48-8	
Sulfate	29.8	mg/L	5.0		1		05/21/21 17:53	14808-79-8	
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		05/12/21 00:48	14797-55-8	
Nitrate-Nitrite (as N)	5.5	mg/L	0.25		5		05/12/21 00:48	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050		1		05/11/21 22:27	14797-65-0	
4500 Ammonia Water		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		05/24/21 13:40	7664-41-7	
Cyanide, Free		Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville							
Cyanide, Free	<10.0	ug/L	10.0		1		05/19/21 11:51	57-12-5	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Sample: N-01715 Lab ID: 70172326006 Collected: 05/10/21 11:25 Received: 05/10/21 15:21 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water									
Analytical Method: EPA 200.7 Pace Analytical Services - Melville									
Calcium	7.1	mg/L	0.20		1		05/11/21 18:08	7440-70-2	
Ca Hardness as CaCO ₃ (SM 2340B)	17.8	mg/L	0.50		1		05/11/21 18:08		
Iron	<0.020	mg/L	0.020		1		05/11/21 18:08	7439-89-6	
Magnesium	4.6	mg/L	0.20		1		05/11/21 18:08	7439-95-4	
Manganese	<0.010	mg/L	0.010		1		05/11/21 18:08	7439-96-5	
Sodium	5.3	mg/L	0.20		1		05/11/21 18:08	7440-23-5	
Tot Hardness as CaCO ₃ (SM 2340B)	36.5	mg/L	0.83		1		05/11/21 18:08		N3
Zinc	<0.020	mg/L	0.020		1		05/11/21 18:08	7440-66-6	
200.8 MET ICPMS Drinking Water									
Analytical Method: EPA 200.8 Pace Analytical Services - Melville									
Antimony	<0.40	ug/L	0.40		1		05/21/21 14:21	7440-36-0	
Arsenic	<1.0	ug/L	1.0		1		05/21/21 14:21	7440-38-2	
Barium	0.014	mg/L	0.0020		1		05/21/21 14:21	7440-39-3	
Beryllium	<0.30	ug/L	0.30		1		05/21/21 14:21	7440-41-7	
Cadmium	<1.0	ug/L	1.0		1		05/21/21 14:21	7440-43-9	
Chromium	<0.0070	mg/L	0.0070		1		05/21/21 14:21	7440-47-3	
Copper	0.0075	mg/L	0.0020		1		05/21/21 14:21	7440-50-8	
Lead	<1.0	ug/L	1.0		1		05/21/21 14:21	7439-92-1	
Mercury	<0.20	ug/L	0.20		1		05/21/21 14:21	7439-97-6	
Nickel	<0.00050	mg/L	0.00050		1		05/21/21 14:21	7440-02-0	
Selenium	<2.0	ug/L	2.0		1		05/21/21 14:21	7782-49-2	
Silver	<0.0010	mg/L	0.0010		1		05/21/21 14:21	7440-22-4	
Thallium	<0.30	ug/L	0.30		1		05/21/21 14:21	7440-28-0	
MBIO Total Coliform DW									
Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert Pace Analytical Services - Melville									
Total Coliforms	Absent				1	05/10/21 16:15	05/11/21 10:15		
E.coli	Absent				1	05/10/21 16:15	05/11/21 10:15		
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.042	ug/L	0.020		1	05/13/21 08:45	05/13/21 23:06	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	05/13/21 08:45	05/13/21 23:06		
524.2 MSV									
Analytical Method: EPA 524.2 Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		05/21/21 20:36	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		05/21/21 20:36	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		05/21/21 20:36	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		05/21/21 20:36	75-25-2	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Project No.: 70172326

Sample: N-01715 Lab ID: 70172326006 Collected: 05/10/21 11:25 Received: 05/10/21 15:21 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									
Bromomethane	<0.50	ug/L	0.50		1		05/21/21 20:36	74-83-9	L2,v3
n-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		05/21/21 20:36	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		05/21/21 20:36	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		05/21/21 20:36	75-00-3	v3
Chloroform	<0.50	ug/L	0.50		1		05/21/21 20:36	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		05/21/21 20:36	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		05/21/21 20:36	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		05/21/21 20:36	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		05/21/21 20:36	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		05/21/21 20:36	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		05/21/21 20:36	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		05/21/21 20:36	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		05/21/21 20:36	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 20:36	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 20:36	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		05/21/21 20:36	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 20:36	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 20:36	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		05/21/21 20:36	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 20:36	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 20:36	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		05/21/21 20:36	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		05/21/21 20:36	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		05/21/21 20:36	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		05/21/21 20:36	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		05/21/21 20:36	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		05/21/21 20:36	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	103-65-1	
Styrene	<0.50	ug/L	0.50		1		05/21/21 20:36	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/21/21 20:36	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		05/21/21 20:36	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		05/21/21 20:36	127-18-4	
Toluene	<0.50	ug/L	0.50		1		05/21/21 20:36	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		05/21/21 20:36		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		05/21/21 20:36	71-55-6	

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Sample: N-01715 Lab ID: 70172326006 Collected: 05/10/21 11:25 Received: 05/10/21 15:21 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									
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		05/21/21 20:36	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		05/21/21 20:36	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		05/21/21 20:36	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		05/21/21 20:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		05/21/21 20:36	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		05/21/21 20:36	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		05/21/21 20:36	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		05/21/21 20:36	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		05/21/21 20:36	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	87	%	70-130		1		05/21/21 20:36	2199-69-1	
4-Bromofluorobenzene (S)	98	%	70-130		1		05/21/21 20:36	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	<2.0	ng/L	2.0		1	05/13/21 16:02	05/15/21 01:43	375-73-5	
Perfluoroheptanoic acid	<2.0	ng/L	2.0		1	05/13/21 16:02	05/15/21 01:43	375-85-9	
Perfluorohexanesulfonic acid	<2.0	ng/L	2.0		1	05/13/21 16:02	05/15/21 01:43	355-46-4	
Perfluorononanoic acid	<2.0	ng/L	2.0		1	05/13/21 16:02	05/15/21 01:43	375-95-1	
Perfluorooctanesulfonic acid	<2.0	ng/L	2.0		10	05/13/21 16:02	05/15/21 01:43	1763-23-1	
Perfluorooctanoic acid	<2.0	ng/L	2.0		10	05/13/21 16:02	05/15/21 01:43	335-67-1	
Surrogates									
13C2-PFDA (S)	93	%	70-130		1	05/13/21 16:02	05/15/21 01:43		
13C2-PFHxA (S)	99	%	70-130		1	05/13/21 16:02	05/15/21 01:43		
HFPO-DAS (S)	78	%	70-130		1	05/13/21 16:02	05/15/21 01:43		
180.1 Turbidity									
Analytical Method: EPA 180.1 Pace Analytical Services - Melville									
Turbidity	<1.0	NTU	1.0		1		05/11/21 13:13		
Wet Chemistry 314.0 Mod									
Analytical Method: EPA 314.0 Preparation Method: 314.0 Mod Pace National - Mt. Juliet									
Perchlorate	<4.00	ug/L	4.00		1	05/17/21 20:29	05/17/21 20:29	14797-73-0	
2120B W Apparent Color									
Analytical Method: SM22 2120B Pace Analytical Services - Melville									
Apparent Color	<5.0	units	5.0		1		05/11/21 17:51		
pH	6.7	Std. Units	0.10		1		05/11/21 17:51		
2150B Threshold Odor Number									
Analytical Method: SM22 2150B Pace Analytical Services - Melville									
Odor @ 60 Degrees C	No odor observed		1.0		1		05/10/21 18:16		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Sample: N-01715		Lab ID: 70172326006		Collected: 05/10/21 11:25	Received: 05/10/21 15:21	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity									
Analytical Method: SM22 2320B Pace Analytical Services - Melville									
Alkalinity, Total as CaCO3	29.6	mg/L	1.0		1		05/23/21 12:59		
2540C Total Dissolved Solids									
Analytical Method: SM22 2540C Pace Analytical Services - Melville									
Total Dissolved Solids	74.0	mg/L	10.0		1		05/15/21 14:20		
5540C MBAS Surfactants									
Analytical Method: SM22 5540C Preparation Method: SM22 5540C Pace Analytical Services - Melville									
LAS Molecular Weight, g/mol	320				1	05/11/21 17:36	05/11/21 17:40		
MBAS, Calculated as LAS	<0.080	mg/L	0.080		1	05/11/21 17:36	05/11/21 17:40		
Langelier Saturation Index									
Analytical Method: SM22 2330 LSI Pace Analytical Services - Melville									
Corrosivity	-3.14				1		05/24/21 18:46		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Melville									
Chloride	7.8	mg/L	2.0		1		05/21/21 18:34	16887-00-6	
Fluoride	<0.10	mg/L	0.10		1		05/21/21 18:34	16984-48-8	
Sulfate	5.6	mg/L	5.0		1		05/21/21 18:34	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrate as N	1.5	mg/L	0.25		5		05/12/21 00:49	14797-55-8	
Nitrate-Nitrite (as N)	1.5	mg/L	0.25		5		05/12/21 00:49	7727-37-9	
353.2 Nitrogen, NO2									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrite as N	<0.050	mg/L	0.050		1		05/11/21 22:28	14797-65-0	
4500 Ammonia Water									
Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville									
Nitrogen, Ammonia	<0.10	mg/L	0.10		1		05/24/21 13:41	7664-41-7	
Cyanide, Free									
Analytical Method: ASTM D7237-10 Pace Analytical Services - Melville									
Cyanide, Free	<10.0	ug/L	10.0		1		05/19/21 12:03	57-12-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 208169 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET No Prep Drinking Water
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: 1036045 Matrix: Drinking Water
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L	<0.50	0.50	05/11/21 17:23	
Calcium	mg/L	<0.20	0.20	05/11/21 17:23	
Iron	mg/L	<0.020	0.020	05/11/21 17:23	
Magnesium	mg/L	<0.20	0.20	05/11/21 17:23	
Manganese	mg/L	<0.010	0.010	05/11/21 17:23	
Sodium	mg/L	<0.20	0.20	05/11/21 17:23	
Tot Hardness asCaCO3 (SM 2340B	mg/L	<0.83	0.83	05/11/21 17:23	N3
Zinc	mg/L	<0.020	0.020	05/11/21 17:23	

LABORATORY CONTROL SAMPLE: 1036046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L		61.7			
Calcium	mg/L	25	24.7	99	85-115	
Iron	mg/L	2	2.0	98	85-115	
Magnesium	mg/L	25	23.9	96	85-115	
Manganese	mg/L	0.25	0.24	98	85-115	
Sodium	mg/L	50	48.6	97	85-115	
Tot Hardness asCaCO3 (SM 2340B	mg/L		160			N3
Zinc	mg/L	1	0.99	99	85-115	

MATRIX SPIKE SAMPLE: 1036048

Parameter	Units	70172360001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ca Hardness as CaCO3 (SM 2340B	mg/L	<500 ug/L		71.9			
Calcium	mg/L	<200 ug/L	25	28.8	115	70-130	
Iron	mg/L	42.3 ug/L	2	2.3	111	70-130	
Magnesium	mg/L	<200 ug/L	25	28.0	112	70-130	
Manganese	mg/L	<10.0 ug/L	0.25	0.28	113	70-130	
Sodium	mg/L	44300 ug/L	50	101	113	70-130	
Tot Hardness asCaCO3 (SM 2340B	mg/L	<830 ug/L		187			N3
Zinc	mg/L	21.2 ug/L	1	1.2	115	70-130	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

MATRIX SPIKE SAMPLE: 1036050		70172360002	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Ca Hardness as CaCO3 (SM 2340B)	mg/L	<500 ug/L		75.2			
Calcium	mg/L	<200 ug/L	25	30.1	120	70-130	
Iron	mg/L	55.3 ug/L	2	2.4	118	70-130	
Magnesium	mg/L	<200 ug/L	25	29.4	118	70-130	
Manganese	mg/L	<10.0 ug/L	0.25	0.30	119	70-130	
Sodium	mg/L	44400 ug/L	50	103	117	70-130	
Tot Hardness asCaCO3 (SM 2340B)	mg/L	<830 ug/L		196			N3
Zinc	mg/L	<20.0 ug/L	1	1.2	122	70-130	

SAMPLE DUPLICATE: 1036047		70172360001	Dup	RPD	Max	Qualifiers
Parameter	Units	Result	Result	RPD	RPD	
Ca Hardness as CaCO3 (SM 2340B)	mg/L	<500 ug/L	<0.50		20	
Calcium	mg/L	<200 ug/L	<0.20		20	
Iron	mg/L	42.3 ug/L	0.041	3	20	
Magnesium	mg/L	<200 ug/L	<0.20		20	
Manganese	mg/L	<10.0 ug/L	<0.010		20	
Sodium	mg/L	44300 ug/L	44.7	1	20	
Tot Hardness asCaCO3 (SM 2340B)	mg/L	<830 ug/L	<0.83		20	N3
Zinc	mg/L	21.2 ug/L	<0.020		20	

SAMPLE DUPLICATE: 1036049		70172360002	Dup	RPD	Max	Qualifiers
Parameter	Units	Result	Result	RPD	RPD	
Ca Hardness as CaCO3 (SM 2340B)	mg/L	<500 ug/L	<0.50		20	
Calcium	mg/L	<200 ug/L	<0.20		20	
Iron	mg/L	55.3 ug/L	0.055	0	20	
Magnesium	mg/L	<200 ug/L	<0.20		20	
Manganese	mg/L	<10.0 ug/L	<0.010		20	
Sodium	mg/L	44400 ug/L	44.2	0	20	
Tot Hardness asCaCO3 (SM 2340B)	mg/L	<830 ug/L	<0.83		20	N3
Zinc	mg/L	<20.0 ug/L	<0.020		20	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 209974 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: 1048109 Matrix: Water
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.40	0.40	05/21/21 14:03	
Arsenic	ug/L	<1.0	1.0	05/21/21 14:03	
Barium	mg/L	<0.0020	0.0020	05/21/21 14:03	
Beryllium	ug/L	<0.30	0.30	05/21/21 14:03	
Cadmium	ug/L	<1.0	1.0	05/21/21 14:03	
Chromium	mg/L	<0.0070	0.0070	05/21/21 14:03	
Copper	mg/L	<0.0020	0.0020	05/21/21 14:03	
Lead	ug/L	<1.0	1.0	05/21/21 14:03	
Mercury	ug/L	<0.20	0.20	05/21/21 14:03	
Nickel	mg/L	<0.00050	0.00050	05/21/21 14:03	
Selenium	ug/L	<2.0	2.0	05/21/21 14:03	
Silver	mg/L	<0.0010	0.0010	05/21/21 14:03	
Thallium	ug/L	<0.30	0.30	05/21/21 14:03	

LABORATORY CONTROL SAMPLE: 1048110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	45.2	90	85-115	
Arsenic	ug/L	50	49.0	98	85-115	
Barium	mg/L	0.05	0.049	97	85-115	
Beryllium	ug/L	50	50.5	101	85-115	
Cadmium	ug/L	50	47.4	95	85-115	
Chromium	mg/L	0.05	0.047	94	85-115	
Copper	mg/L	0.05	0.047	95	85-115	
Lead	ug/L	50	47.9	96	85-115	
Mercury	ug/L	1	0.93	93	85-115	
Nickel	mg/L	0.05	0.048	96	85-115	
Selenium	ug/L	50	50.8	102	85-115	
Silver	mg/L	0.025	0.024	96	85-115	
Thallium	ug/L	25	24.4	98	85-115	

MATRIX SPIKE SAMPLE: 1048112

Parameter	Units	70172326001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	<0.40	25	27.6	110	70-130	
Arsenic	ug/L	<1.0	25	30.4	121	70-130	
Barium	mg/L	0.021	0.025	0.051	117	70-130	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

MATRIX SPIKE SAMPLE: 1048112		70172326001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Beryllium	ug/L	<0.30	25	32.5	130	70-130	
Cadmium	ug/L	<1.0	25	29.6	118	70-130	
Chromium	mg/L	<0.0070	0.025	0.031	120	70-130	
Copper	mg/L	0.0084	0.025	0.037	112	70-130	
Lead	ug/L	<1.0	25	31.9	124	70-130	
Mercury	ug/L	<0.20	0.02	<0.20	125	70-130	
Nickel	mg/L	0.0028	0.025	0.031	114	70-130	
Selenium	ug/L	2.3	25	33.4	124	70-130	
Silver	mg/L	<0.0010	0.012	0.0017	13	70-130 M1	
Thallium	ug/L	<0.30	12.5	15.4	123	70-130	

SAMPLE DUPLICATE: 1048111

Parameter	Units	70172326001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
Antimony	ug/L	<0.40	<0.40		20	
Arsenic	ug/L	<1.0	<1.0		20	
Barium	mg/L	0.021	0.022	0	20	
Beryllium	ug/L	<0.30	<0.30		20	
Cadmium	ug/L	<1.0	<1.0		20	
Chromium	mg/L	<0.0070	<0.0070		20	
Copper	mg/L	0.0084	0.0084	1	20	
Lead	ug/L	<1.0	<1.0		20	
Mercury	ug/L	<0.20	<0.20		20	
Nickel	mg/L	0.0028	0.0027	2	20	
Selenium	ug/L	2.3	2.1	9	20	
Silver	mg/L	<0.0010	<0.0010		20	
Thallium	ug/L	<0.30	<0.30		20	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 208104	Analysis Method: SM22 9223B Colilert
QC Batch Method: SM22 9223B Colilert	Analysis Description: TotColDW MBIO Total Coliform
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326005, 70172326006

METHOD BLANK: 1035456 Matrix: Drinking Water
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
E.coli		Absent		05/11/21 10:15	
Total Coliforms		Absent		05/11/21 10:15	

SAMPLE DUPLICATE: 1035457

Parameter	Units	70172342001 Result	Dup Result	RPD	Max RPD	Qualifiers
E.coli		Absent	Absent			
Total Coliforms		Absent	Absent			

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

QC Batch: 209969 Analysis Method: EPA 524.2
 QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
 Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: 1048070 Matrix: Water

Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	05/21/21 12:19	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	05/21/21 12:19	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	05/21/21 12:19	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	05/21/21 12:19	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	05/21/21 12:19	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	05/21/21 12:19	
1,1-Dichloroethene	ug/L	<0.50	0.50	05/21/21 12:19	
1,1-Dichloropropene	ug/L	<0.50	0.50	05/21/21 12:19	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	05/21/21 12:19	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	05/21/21 12:19	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	05/21/21 12:19	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	05/21/21 12:19	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	05/21/21 12:19	
1,2-Dichloroethane	ug/L	<0.50	0.50	05/21/21 12:19	
1,2-Dichloropropane	ug/L	<0.50	0.50	05/21/21 12:19	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	05/21/21 12:19	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	05/21/21 12:19	
1,3-Dichloropropane	ug/L	<0.50	0.50	05/21/21 12:19	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	05/21/21 12:19	
2,2-Dichloropropane	ug/L	<0.50	0.50	05/21/21 12:19	
2-Chlorotoluene	ug/L	<0.50	0.50	05/21/21 12:19	
4-Chlorotoluene	ug/L	<0.50	0.50	05/21/21 12:19	
Benzene	ug/L	<0.50	0.50	05/21/21 12:19	
Bromobenzene	ug/L	<0.50	0.50	05/21/21 12:19	
Bromochloromethane	ug/L	<0.50	0.50	05/21/21 12:19	
Bromodichloromethane	ug/L	<0.50	0.50	05/21/21 12:19	
Bromoform	ug/L	<0.50	0.50	05/21/21 12:19	
Bromomethane	ug/L	<0.50	0.50	05/21/21 12:19	v3
Carbon tetrachloride	ug/L	<0.50	0.50	05/21/21 12:19	
Chlorobenzene	ug/L	<0.50	0.50	05/21/21 12:19	
Chlorodifluoromethane	ug/L	<0.50	0.50	05/21/21 12:19	N3
Chloroethane	ug/L	<0.50	0.50	05/21/21 12:19	v3
Chloroform	ug/L	<0.50	0.50	05/21/21 12:19	
Chloromethane	ug/L	<0.50	0.50	05/21/21 12:19	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	05/21/21 12:19	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	05/21/21 12:19	
Dibromochloromethane	ug/L	<0.50	0.50	05/21/21 12:19	
Dibromomethane	ug/L	<0.50	0.50	05/21/21 12:19	
Dichlorodifluoromethane	ug/L	<0.50	0.50	05/21/21 12:19	
Ethylbenzene	ug/L	<0.50	0.50	05/21/21 12:19	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

METHOD BLANK: 1048070 Matrix: Water
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	05/21/21 12:19	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	05/21/21 12:19	
m&p-Xylene	ug/L	<0.50	0.50	05/21/21 12:19	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	05/21/21 12:19	
Methylene Chloride	ug/L	<0.50	0.50	05/21/21 12:19	
n-Butylbenzene	ug/L	<0.50	0.50	05/21/21 12:19	
n-Propylbenzene	ug/L	<0.50	0.50	05/21/21 12:19	
o-Xylene	ug/L	<0.50	0.50	05/21/21 12:19	
p-Isopropyltoluene	ug/L	<0.50	0.50	05/21/21 12:19	
sec-Butylbenzene	ug/L	<0.50	0.50	05/21/21 12:19	
Styrene	ug/L	<0.50	0.50	05/21/21 12:19	
tert-Butylbenzene	ug/L	<0.50	0.50	05/21/21 12:19	
Tetrachloroethene	ug/L	<0.50	0.50	05/21/21 12:19	
Toluene	ug/L	<0.50	0.50	05/21/21 12:19	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	05/21/21 12:19	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	05/21/21 12:19	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	05/21/21 12:19	
Trichloroethene	ug/L	<0.50	0.50	05/21/21 12:19	
Trichlorofluoromethane	ug/L	<0.50	0.50	05/21/21 12:19	
Vinyl chloride	ug/L	<0.50	0.50	05/21/21 12:19	
1,2-Dichlorobenzene-d4 (S)	%	89	70-130	05/21/21 12:19	
4-Bromofluorobenzene (S)	%	95	70-130	05/21/21 12:19	

LABORATORY CONTROL SAMPLE: 1048071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.7	97	70-130	
1,1,1-Trichloroethane	ug/L	10	9.9	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	11.8	118	70-130	
1,1,2-Trichloroethane	ug/L	10	11.2	112	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	9.3	93	70-130	N3
1,1-Dichloroethane	ug/L	10	10.8	108	70-130	
1,1-Dichloroethene	ug/L	10	9.8	98	70-130	
1,1-Dichloropropene	ug/L	10	11.5	115	70-130	
1,2,3-Trichlorobenzene	ug/L	10	10	100	70-130	
1,2,3-Trichloropropane	ug/L	10	11.5	115	70-130	
1,2,4-Trichlorobenzene	ug/L	10	9.7	97	70-130	
1,2,4-Trimethylbenzene	ug/L	10	10.6	106	70-130	
1,2-Dichlorobenzene	ug/L	10	9.1	91	70-130	
1,2-Dichloroethane	ug/L	10	10.7	107	70-130	
1,2-Dichloropropane	ug/L	10	10.4	104	70-130	
1,3,5-Trimethylbenzene	ug/L	10	9.6	96	70-130	
1,3-Dichlorobenzene	ug/L	10	9.6	96	70-130	
1,3-Dichloropropane	ug/L	10	11.2	112	70-130	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

LABORATORY CONTROL SAMPLE: 1048071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	9.9	99	70-130	
2,2-Dichloropropane	ug/L	10	10.7	107	70-130	
2-Chlorotoluene	ug/L	10	10.2	102	70-130	
4-Chlorotoluene	ug/L	10	10.4	104	70-130	
Benzene	ug/L	10	10.6	106	70-130	
Bromobenzene	ug/L	10	9.8	98	70-130	
Bromochloromethane	ug/L	10	8.9	89	70-130	
Bromodichloromethane	ug/L	10	9.9	99	70-130	
Bromoform	ug/L	10	10.8	108	70-130	
Bromomethane	ug/L	10	6.6	66	70-130	L2,v3
Carbon tetrachloride	ug/L	10	9.7	97	70-130	
Chlorobenzene	ug/L	10	10.0	100	70-130	
Chlorodifluoromethane	ug/L	10	8.0	80	70-130	N3
Chloroethane	ug/L	10	9.3	93	70-130	v3
Chloroform	ug/L	10	11.1	111	70-130	
Chloromethane	ug/L	10	8.6	86	70-130	
cis-1,2-Dichloroethene	ug/L	10	9.2	92	70-130	
cis-1,3-Dichloropropene	ug/L	10	11.4	114	70-130	
Dibromochloromethane	ug/L	10	9.4	94	70-130	
Dibromomethane	ug/L	10	10.8	108	70-130	
Dichlorodifluoromethane	ug/L	10	9.2	92	70-130	
Ethylbenzene	ug/L	10	10.3	103	70-130	
Hexachloro-1,3-butadiene	ug/L	10	10.1	101	70-130	
Isopropylbenzene (Cumene)	ug/L	10	10.1	101	70-130	
m&p-Xylene	ug/L	20	20.3	102	70-130	
Methyl-tert-butyl ether	ug/L	10	12.5	125	70-130	IH
Methylene Chloride	ug/L	10	10.2	102	70-130	
n-Butylbenzene	ug/L	10	10.6	106	70-130	
n-Propylbenzene	ug/L	10	11.1	111	70-130	
o-Xylene	ug/L	10	10.0	100	70-130	
p-Isopropyltoluene	ug/L	10	9.8	98	70-130	
sec-Butylbenzene	ug/L	10	10	100	70-130	
Styrene	ug/L	10	10.4	104	70-130	
tert-Butylbenzene	ug/L	10	9.3	93	70-130	
Tetrachloroethene	ug/L	10	9.8	98	70-130	
Toluene	ug/L	10	10.6	106	70-130	
Total Trihalomethanes (Calc.)	ug/L		41.2			
trans-1,2-Dichloroethene	ug/L	10	9.7	97	70-130	
trans-1,3-Dichloropropene	ug/L	10	11.5	115	70-130	
Trichloroethene	ug/L	10	9.7	97	70-130	
Trichlorofluoromethane	ug/L	10	10.4	104	70-130	
Vinyl chloride	ug/L	10	10.3	103	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			109	70-130	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 208509 Analysis Method: EPA 522
QC Batch Method: EPA 522 Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326001, 70172326004, 70172326006

METHOD BLANK: 1038898 Matrix: Drinking Water
Associated Lab Samples: 70172326001, 70172326004, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	05/13/21 16:22	
1,4-Dioxane-d8 (S)	%	94	70-130	05/13/21 16:22	

LABORATORY CONTROL SAMPLE: 1038899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4	3.8	96	70-130	
1,4-Dioxane-d8 (S)	%			93	70-130	

MATRIX SPIKE SAMPLE: 1038900

Parameter	Units	70172321001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.020	4	4.0	99	70-130	
1,4-Dioxane-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 1038901

Parameter	Units	70172315001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.32	0.32	2	20	
1,4-Dioxane-d8 (S)	%	93	92		20	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 729075 Analysis Method: EPA 537.1
QC Batch Method: EPA 537.1 Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70172326001, 70172326004, 70172326006

METHOD BLANK: 3974738 Matrix: Water
Associated Lab Samples: 70172326001, 70172326004, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	05/14/21 19:49	
Perfluoroheptanoic acid	ng/L	ND	2.0	05/14/21 19:49	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	05/14/21 19:49	
Perfluorononanoic acid	ng/L	ND	2.0	05/14/21 19:49	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	05/14/21 19:49	
Perfluorooctanoic acid	ng/L	ND	2.0	05/14/21 19:49	
13C2-PFDA (S)	%	85	70-130	05/14/21 19:49	
13C2-PFHxA (S)	%	87	70-130	05/14/21 19:49	
HFPO-DAS (S)	%	71	70-130	05/14/21 19:49	
NETFOSAA-d5 (S)	%	89	70-130	05/14/21 19:49	

LABORATORY CONTROL SAMPLE: 3974739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	142	157	111	70-130	
Perfluoroheptanoic acid	ng/L	160	160	100	70-130	
Perfluorohexanesulfonic acid	ng/L	146	155	106	70-130	
Perfluorononanoic acid	ng/L	160	163	102	70-130	
Perfluorooctanesulfonic acid	ng/L	148	161	109	70-130	
Perfluorooctanoic acid	ng/L	160	162	101	70-130	
13C2-PFDA (S)	%			91	70-130	
13C2-PFHxA (S)	%			92	70-130	
HFPO-DAS (S)	%			84	70-130	
NETFOSAA-d5 (S)	%			90	70-130	

LABORATORY CONTROL SAMPLE: 3974740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	2.1	120	50-150	
Perfluoroheptanoic acid	ng/L	2	2.6	130	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	2.0	110	50-150	
Perfluorononanoic acid	ng/L	2	2.2	108	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	ND	106	50-150	
Perfluorooctanoic acid	ng/L	2	2.1	106	50-150	
13C2-PFDA (S)	%			97	70-130	
13C2-PFHxA (S)	%			97	70-130	
HFPO-DAS (S)	%			82	70-130	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

LABORATORY CONTROL SAMPLE: 3974740

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

MATRIX SPIKE SAMPLE: 3974741

Parameter	Units	35632868001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	0.017 ug/L	128	150	104	70-130	
Perfluoroheptanoic acid	ng/L	0.0069 ug/L	144	156	103	70-130	
Perfluorohexanesulfonic acid	ng/L	0.0080 ug/L	132	148	107	70-130	
Perfluorononanoic acid	ng/L	0.0018U ug/L	144	144	99	70-130	
Perfluorooctanesulfonic acid	ng/L	0.037 ug/L	133	176	104	70-130	
Perfluorooctanoic acid	ng/L	0.0090 ug/L	144	157	103	70-130	
13C2-PFDA (S)	%				94	70-130	
13C2-PFHxA (S)	%				100	70-130	
HFPO-DAS (S)	%				69	70-130	SO
NETFOSAA-d5 (S)	%				90	70-130	

SAMPLE DUPLICATE: 3974742

Parameter	Units	70172293001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	<1.9		30	
Perfluoroheptanoic acid	ng/L	3.4	3.9	15	30	
Perfluorohexanesulfonic acid	ng/L	5.5	5.3	4	30	
Perfluorononanoic acid	ng/L	7.7	8.8	13	30	
Perfluorooctanesulfonic acid	ng/L	8.9	9.6	7	30	
Perfluorooctanoic acid	ng/L	13.6	15.6	14	30	
13C2-PFDA (S)	%	107	91			
13C2-PFHxA (S)	%	105	100			
HFPO-DAS (S)	%	88	75			
NETFOSAA-d5 (S)	%	98	93			

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 208140 Analysis Method: EPA 180.1
QC Batch Method: EPA 180.1 Analysis Description: 180.1 Turbidity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: 1035774 Matrix: Water
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	05/11/21 13:08	

LABORATORY CONTROL SAMPLE: 1035775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	10	10.0	100	90-110	

SAMPLE DUPLICATE: 1035776

Parameter	Units	70172326003 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	<1.0	<1.0		20	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 1669391 Analysis Method: EPA 314.0
QC Batch Method: 314.0 Mod Analysis Description: Wet Chemistry 314.0 Mod
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: R3655991-1 Matrix: Water
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perchlorate	ug/L	<4.00	4.00	05/17/21 15:06	

LABORATORY CONTROL SAMPLE: R3655991-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perchlorate	ug/L	10.0	10.4	104	90.0-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3655991-4 R3655991-5

Parameter	Units	L1350630-03 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Perchlorate	ug/L	ND	10.0	10.0	10.4	10.4	104	104	80.0-120	0.413	15	

SAMPLE DUPLICATE: R3655991-3

Parameter	Units	L1350630-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Perchlorate	ug/L	ND	<4.00	0.00	15	

SAMPLE DUPLICATE: R3655991-6

Parameter	Units	L1351600-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Perchlorate	ug/L	ND	<4.00	0.00	15	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

QC Batch:	208194	Analysis Method:	SM22 2120B
QC Batch Method:	SM22 2120B	Analysis Description:	2120B Color
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: 1036317 Matrix: Water

Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Apparent Color	units	<5.0	5.0	05/11/21 17:51	

LABORATORY CONTROL SAMPLE: 1036318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Apparent Color	units	40	40.0	100	90-110	

SAMPLE DUPLICATE: 1036346

Parameter	Units	70172318005 Result	Dup Result	RPD	Max RPD	Qualifiers
Apparent Color	units	1000	1000	0	20	
pH	Std. Units	6.8	6.8	0	10	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

QC Batch: 208119

Analysis Method: SM22 2150B

QC Batch Method: SM22 2150B

Analysis Description: 2150B Threshold Odor Number

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: 1035590

Matrix: Drinking Water

Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Odor @ 60 Degrees C		No odor	1.0	05/10/21 18:15	

SAMPLE DUPLICATE: 1035591

Parameter	Units	70172326002 Result	Dup Result	RPD	Max RPD	Qualifiers
Odor @ 60 Degrees C		No odor observed	No odor		20	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 210111 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: 1050118 Matrix: Water
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/23/21 12:08	

LABORATORY CONTROL SAMPLE: 1050119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	26.0	104	85-115	

MATRIX SPIKE SAMPLE: 1050121

Parameter	Units	70172326001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	26.2	50	77.6	103	75-125	

SAMPLE DUPLICATE: 1050120

Parameter	Units	70172326001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	26.2	26.7	2	20	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 208934 Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: 1041852 Matrix: Water
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/15/21 14:01	

LABORATORY CONTROL SAMPLE: 1041853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	526	105	85-115	

MATRIX SPIKE SAMPLE: 1041855

Parameter	Units	70172326001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	202	600	734	89	75-125	

MATRIX SPIKE SAMPLE: 1041857

Parameter	Units	70172405001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	242	600	816	96	75-125	

SAMPLE DUPLICATE: 1041854

Parameter	Units	70172326001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	202	196	3	5	

SAMPLE DUPLICATE: 1041856

Parameter	Units	70172405001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	242	240	1	5	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

QC Batch:	208196	Analysis Method:	SM22 5540C
QC Batch Method:	SM22 5540C	Analysis Description:	5540C MBAS Surfactants
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: 1036334 Matrix: Water

Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
LAS Molecular Weight, g/mol		320		05/11/21 17:39	
MBAS, Calculated as LAS	mg/L	ND	0.080	05/11/21 17:39	

LABORATORY CONTROL SAMPLE: 1036335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
LAS Molecular Weight, g/mol			320			
MBAS, Calculated as LAS	mg/L	0.24	0.23	97	85-115	

MATRIX SPIKE SAMPLE: 1036336

Parameter	Units	70172326001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
LAS Molecular Weight, g/mol				320			
MBAS, Calculated as LAS	mg/L	<0.080	0.24	0.20	80	75-125	

SAMPLE DUPLICATE: 1036337

Parameter	Units	70172326001 Result	Dup Result	RPD	Max RPD	Qualifiers
LAS Molecular Weight, g/mol		320	320			
MBAS, Calculated as LAS	mg/L	<0.080	<0.080		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 209850 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: 1047597 Matrix: Water
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	05/21/21 07:59	
Fluoride	mg/L	<0.10	0.10	05/21/21 07:59	
Sulfate	mg/L	<5.0	5.0	05/21/21 07:59	

LABORATORY CONTROL SAMPLE: 1047598

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.5	105	90-110	
Fluoride	mg/L	1	1.1	108	90-110	
Sulfate	mg/L	10	10.6	106	90-110	

MATRIX SPIKE SAMPLE: 1047599

Parameter	Units	70172326005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	35.0	10	44.3	93	90-110	
Fluoride	mg/L	<0.10	1	0.95	92	90-110	
Sulfate	mg/L	29.8	10	39.4	95	90-110	

MATRIX SPIKE SAMPLE: 1047601

Parameter	Units	70172685001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10.6	10	20.6	99	90-110	
Fluoride	mg/L	<0.10	1	0.97	97	90-110	
Sulfate	mg/L	<5.0	10	14.3	97	90-110	

SAMPLE DUPLICATE: 1047600

Parameter	Units	70172326005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	35.0	35.0	0	15	
Fluoride	mg/L	<0.10	<0.10		15	
Sulfate	mg/L	29.8	29.8	0	15	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

SAMPLE DUPLICATE: 1047602

Parameter	Units	70172685001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	10.6	10.8	2	15	
Fluoride	mg/L	<0.10	<0.10		15	
Sulfate	mg/L	<5.0	<5.0		15	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 208233 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: 1036917 Matrix: Water
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004, 70172326005, 70172326006

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

LABORATORY CONTROL SAMPLE: 1036918

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

MATRIX SPIKE SAMPLE: 1036919

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

MATRIX SPIKE SAMPLE: 1036921

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

SAMPLE DUPLICATE: 1036920

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

SAMPLE DUPLICATE: 1036922

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

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 208236 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate, Unpres.
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326001, 70172326002

METHOD BLANK: 1036935 Matrix: Water
Associated Lab Samples: 70172326001, 70172326002

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

LABORATORY CONTROL SAMPLE: 1036936

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

MATRIX SPIKE SAMPLE: 1036937

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

MATRIX SPIKE SAMPLE: 1036939

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

SAMPLE DUPLICATE: 1036938

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

SAMPLE DUPLICATE: 1036940

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

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

QC Batch:	208237	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: 70172326003, 70172326004, 70172326005, 70172326006

METHOD BLANK: 1036941 Matrix: Water
Associated Lab Samples: 70172326003, 70172326004, 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.050	05/12/21 00:40	

LABORATORY CONTROL SAMPLE: 1036942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 1036943

Parameter	Units	70172326003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	3.7	2.5	6.2	100	90-110	

SAMPLE DUPLICATE: 1036944

Parameter	Units	70172326003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	3.7	3.7	0	20	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 209947 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004

METHOD BLANK: 1048020 Matrix: Water
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/21/21 12:28	

LABORATORY CONTROL SAMPLE: 1048021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.99	99	90-110	

MATRIX SPIKE SAMPLE: 1048022

Parameter	Units	70173595002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	12.5	10	20.8	83	75-125	

SAMPLE DUPLICATE: 1048023

Parameter	Units	70173595002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	12.5	11.6	7	20	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 210218 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326005, 70172326006

METHOD BLANK: 1050534 Matrix: Water
Associated Lab Samples: 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/24/21 13:38	

LABORATORY CONTROL SAMPLE: 1050535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.95	95	90-110	

MATRIX SPIKE SAMPLE: 1050536

Parameter	Units	70172690001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	21.6	10	31.5	99	75-125	

SAMPLE DUPLICATE: 1050537

Parameter	Units	70172690001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	21.6	21.9	1	20	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 209415 Analysis Method: ASTM D7237-10
QC Batch Method: ASTM D7237-10 Analysis Description: Cyanide, Free
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004

METHOD BLANK: 1045320 Matrix: Drinking Water
Associated Lab Samples: 70172326001, 70172326002, 70172326003, 70172326004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Free	ug/L	<10.0	10.0	05/19/21 09:47	

LABORATORY CONTROL SAMPLE: 1045321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Free	ug/L	100	99.1	99	85-114	

MATRIX SPIKE SAMPLE: 1045322

Parameter	Units	70172465001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide, Free	ug/L	<10.0	50	<10.0	0	79-121	M1

SAMPLE DUPLICATE: 1045323

Parameter	Units	70172465001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Free	ug/L	<10.0	<10.0		20	

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QUALITY CONTROL DATA

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

QC Batch: 209463 Analysis Method: ASTM D7237-10
QC Batch Method: ASTM D7237-10 Analysis Description: Cyanide, Free
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70172326005, 70172326006

METHOD BLANK: 1045528 Matrix: Drinking Water
Associated Lab Samples: 70172326005, 70172326006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Free	ug/L	<10.0	10.0	05/19/21 11:42	

LABORATORY CONTROL SAMPLE: 1045529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Free	ug/L	100	96.0	96	85-114	

MATRIX SPIKE SAMPLE: 1045530

Parameter	Units	70172326005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide, Free	ug/L	<10.0	50	48.6	97	79-121	

SAMPLE DUPLICATE: 1045531

Parameter	Units	70172326005 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Free	ug/L	<10.0	<10.0		20	

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QUALIFIERS

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

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.

WORKORDER QUALIFIERS

WO: 70172326

- [1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

SAMPLE QUALIFIERS

Sample: 70172326001

- [1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

ANALYTE QUALIFIERS

- IH This analyte exceeded secondary source verification criteria high 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.
- S0 Surrogate recovery outside laboratory control limits.
- v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70172326004	AS-8/9/11		208100		
70172326001	N-07552	EPA 200.7	208169		
70172326002	N-13510	EPA 200.7	208169		
70172326003	N-07551	EPA 200.7	208169		
70172326004	AS-8/9/11	EPA 200.7	208169		
70172326005	N-05876	EPA 200.7	208169		
70172326006	N-01715	EPA 200.7	208169		
70172326001	N-07552	EPA 200.8	209974		
70172326002	N-13510	EPA 200.8	209974		
70172326003	N-07551	EPA 200.8	209974		
70172326004	AS-8/9/11	EPA 200.8	209974		
70172326005	N-05876	EPA 200.8	209974		
70172326006	N-01715	EPA 200.8	209974		
70172326001	N-07552	SM22 9223B Colilert	208104	SM22 9223B Colilert	208217
70172326002	N-13510	SM22 9223B Colilert	208104	SM22 9223B Colilert	208217
70172326003	N-07551	SM22 9223B Colilert	208104	SM22 9223B Colilert	208217
70172326005	N-05876	SM22 9223B Colilert	208104	SM22 9223B Colilert	208217
70172326006	N-01715	SM22 9223B Colilert	208104	SM22 9223B Colilert	208217
70172326001	N-07552	EPA 522	208509	EPA 522	208648
70172326004	AS-8/9/11	EPA 522	208509	EPA 522	208648
70172326006	N-01715	EPA 522	208509	EPA 522	208648
70172326001	N-07552	EPA 524.2	209969		
70172326002	N-13510	EPA 524.2	209969		
70172326003	N-07551	EPA 524.2	209969		
70172326004	AS-8/9/11	EPA 524.2	209969		
70172326005	N-05876	EPA 524.2	209969		
70172326006	N-01715	EPA 524.2	209969		
70172326001	N-07552	EPA 537.1	729075	EPA 537.1	729550
70172326004	AS-8/9/11	EPA 537.1	729075	EPA 537.1	729550
70172326006	N-01715	EPA 537.1	729075	EPA 537.1	729550
70172326001	N-07552	EPA 180.1	208140		
70172326002	N-13510	EPA 180.1	208140		
70172326003	N-07551	EPA 180.1	208140		
70172326004	AS-8/9/11	EPA 180.1	208140		
70172326005	N-05876	EPA 180.1	208140		
70172326006	N-01715	EPA 180.1	208140		
70172326001	N-07552	314.0 Mod	1669391	EPA 314.0	1669391
70172326002	N-13510	314.0 Mod	1669391	EPA 314.0	1669391
70172326003	N-07551	314.0 Mod	1669391	EPA 314.0	1669391
70172326004	AS-8/9/11	314.0 Mod	1669391	EPA 314.0	1669391
70172326005	N-05876	314.0 Mod	1669391	EPA 314.0	1669391
70172326006	N-01715	314.0 Mod	1669391	EPA 314.0	1669391
70172326001	N-07552	SM22 2120B	208194		
70172326002	N-13510	SM22 2120B	208194		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10

Pace Project No.: 70172326

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70172326003	N-07551	SM22 2120B	208194		
70172326004	AS-8/9/11	SM22 2120B	208194		
70172326005	N-05876	SM22 2120B	208194		
70172326006	N-01715	SM22 2120B	208194		
70172326001	N-07552	SM22 2150B	208119		
70172326002	N-13510	SM22 2150B	208119		
70172326003	N-07551	SM22 2150B	208119		
70172326004	AS-8/9/11	SM22 2150B	208119		
70172326005	N-05876	SM22 2150B	208119		
70172326006	N-01715	SM22 2150B	208119		
70172326001	N-07552	SM22 2320B	210111		
70172326002	N-13510	SM22 2320B	210111		
70172326003	N-07551	SM22 2320B	210111		
70172326004	AS-8/9/11	SM22 2320B	210111		
70172326005	N-05876	SM22 2320B	210111		
70172326006	N-01715	SM22 2320B	210111		
70172326001	N-07552	SM22 2540C	208934		
70172326002	N-13510	SM22 2540C	208934		
70172326003	N-07551	SM22 2540C	208934		
70172326004	AS-8/9/11	SM22 2540C	208934		
70172326005	N-05876	SM22 2540C	208934		
70172326006	N-01715	SM22 2540C	208934		
70172326001	N-07552	SM22 5540C	208196	SM22 5540C	208221
70172326002	N-13510	SM22 5540C	208196	SM22 5540C	208221
70172326003	N-07551	SM22 5540C	208196	SM22 5540C	208221
70172326004	AS-8/9/11	SM22 5540C	208196	SM22 5540C	208221
70172326005	N-05876	SM22 5540C	208196	SM22 5540C	208221
70172326006	N-01715	SM22 5540C	208196	SM22 5540C	208221
70172326001	N-07552	SM22 2330 LSI	210294		
70172326002	N-13510	SM22 2330 LSI	210294		
70172326003	N-07551	SM22 2330 LSI	210294		
70172326004	AS-8/9/11	SM22 2330 LSI	210294		
70172326005	N-05876	SM22 2330 LSI	210294		
70172326006	N-01715	SM22 2330 LSI	210294		
70172326001	N-07552	EPA 300.0	209850		
70172326002	N-13510	EPA 300.0	209850		
70172326003	N-07551	EPA 300.0	209850		
70172326004	AS-8/9/11	EPA 300.0	209850		
70172326005	N-05876	EPA 300.0	209850		
70172326006	N-01715	EPA 300.0	209850		
70172326001	N-07552	EPA 353.2	208236		
70172326002	N-13510	EPA 353.2	208236		
70172326003	N-07551	EPA 353.2	208237		
70172326004	AS-8/9/11	EPA 353.2	208237		
70172326005	N-05876	EPA 353.2	208237		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BAC/POC/1,4/PFAS/IOC/PERC 5/10
Pace Project No.: 70172326

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70172326006	N-01715	EPA 353.2	208237		
70172326001	N-07552	EPA 353.2	208233		
70172326002	N-13510	EPA 353.2	208233		
70172326003	N-07551	EPA 353.2	208233		
70172326004	AS-8/9/11	EPA 353.2	208233		
70172326005	N-05876	EPA 353.2	208233		
70172326006	N-01715	EPA 353.2	208233		
70172326001	N-07552	SM22 4500 NH3 H	209947		
70172326002	N-13510	SM22 4500 NH3 H	209947		
70172326003	N-07551	SM22 4500 NH3 H	209947		
70172326004	AS-8/9/11	SM22 4500 NH3 H	209947		
70172326005	N-05876	SM22 4500 NH3 H	210218		
70172326006	N-01715	SM22 4500 NH3 H	210218		
70172326001	N-07552	ASTM D7237-10	209415		
70172326002	N-13510	ASTM D7237-10	209415		
70172326003	N-07551	ASTM D7237-10	209415		
70172326004	AS-8/9/11	ASTM D7237-10	209415		
70172326005	N-05876	ASTM D7237-10	209463		
70172326006	N-01715	ASTM D7237-10	209463		

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Sample Condition Upon Receipt

WO#: 70172326

Client Name: PWW

Project

PM: JSA

Due Date: 05/19/21

CLIENT: PWW

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes NoPacking Material: Bubble Wrap Bubble Bags Ziploc None OtherThermometer Used: TH091 Correction Factor: +0.0Cooler Temperature (°C): 6.9 Cooler Temperature Corrected (°C): 6.9

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)Date and Initials of person examining contents: 5/10/21 JJDDid 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 NoDid samples originate from a foreign source including Hawaii and Puerto Rico)? Yes No

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

				COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		7.
Sufficient Volume: (Triple volume provided for)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		10.
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		12.
-Includes date/time/ID, Matrix: <u>SL WT OIL</u>				
All containers needing preservation have been checked?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>HCO25486</u>				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> , Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #				
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable): _____				

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

June 18, 2021

Supt. Tal Vacchio
Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050

RE: Project: 1,4 DIOX/PFAS/POC/524.3 6/1
Pace Project No.: 70175100

Dear Supt. Tal Vacchio:

Enclosed are the analytical results for sample(s) received by the laboratory on June 01, 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
Jim Van Horn
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Lisa Ortiz, D&B
Xavier Sardoni, D&B Engineers
Jasper Skliba, Port Washington W.D.
Reports User, Port Washington W.D.
Richard Zimbardi, Port Washington W.D.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1
Pace Project No.: 70175100

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236

Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70175100001	N-09809	Drinking Water	06/01/21 10:05	06/01/21 15:36
70175100002	GAC-09809	Drinking Water	06/01/21 10:13	06/01/21 15:36
70175100003	N-02052	Drinking Water	06/01/21 08:30	06/01/21 15:36
70175100004	GAC-02052	Drinking Water	06/01/21 08:38	06/01/21 15:36
70175100005	GAC-SH1/SH2	Drinking Water	06/01/21 08:04	06/01/21 15:36
70175100006	AS-05209	Drinking Water	06/01/21 07:45	06/01/21 15:36

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SAMPLE ANALYTE COUNT

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70175100001	N-09809	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70175100002	GAC-09809	EPA 522	TJD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70175100003	N-02052	EPA 522	TJD	2	PACE-MV
		EPA 524.3	BBL	5	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70175100004	GAC-02052	EPA 522	TJD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 524.3	BBL	5	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70175100005	GAC-SH1/SH2	EPA 524.2	KGG	62	PACE-MV
70175100006	AS-05209	EPA 524.2	KGG	62	PACE-MV

PACE-MV = Pace Analytical Services - Melville

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

Sample: N-09809 **Lab ID: 70175100001** **Collected: 06/01/21 10:05** Received: 06/01/21 15:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.73	ug/L	0.020		1	06/04/21 08:06	06/04/21 22:18	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	06/04/21 08:06	06/04/21 22:18		
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	06/07/21 11:07	06/17/21 02:20	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	06/07/21 11:07	06/17/21 02:20	375-85-9	
Perfluorohexanesulfonic acid	3.1	ng/L	1.9		1	06/07/21 11:07	06/17/21 02:20	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	06/07/21 11:07	06/17/21 02:20	375-95-1	
Perfluorooctanesulfonic acid	<1.9	ng/L	1.9	10	1	06/07/21 11:07	06/17/21 02:20	1763-23-1	
Perfluorooctanoic acid	3.8	ng/L	1.9	10	1	06/07/21 11:07	06/17/21 02:20	335-67-1	
Surrogates									
13C2-PFDA (S)	102	%	70-130		1	06/07/21 11:07	06/17/21 02:20		
13C2-PFHxA (S)	109	%	70-130		1	06/07/21 11:07	06/17/21 02:20		
HFPO-DAS (S)	106	%	70-130		1	06/07/21 11:07	06/17/21 02:20		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

Sample: GAC-09809 Lab ID: 70175100002 Collected: 06/01/21 10:13 Received: 06/01/21 15:36 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.74	ug/L	0.020		1	06/04/21 08:06	06/04/21 22:39	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	99	%	70-130		1	06/04/21 08:06	06/04/21 22:39		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		06/05/21 19:55	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		06/05/21 19:55	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		06/05/21 19:55	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		06/05/21 19:55	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		06/05/21 19:55	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		06/05/21 19:55	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		06/05/21 19:55	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		06/05/21 19:55	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		06/05/21 19:55	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		06/05/21 19:55	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		06/05/21 19:55	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		06/05/21 19:55	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		06/05/21 19:55	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		06/05/21 19:55	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		06/05/21 19:55	75-71-8	
1,1-Dichloroethane	1.2	ug/L	0.50		1		06/05/21 19:55	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		06/05/21 19:55	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		06/05/21 19:55	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		06/05/21 19:55	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		06/05/21 19:55	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		06/05/21 19:55	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		06/05/21 19:55	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		06/05/21 19:55	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		06/05/21 19:55	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		06/05/21 19:55	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		06/05/21 19:55	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		06/05/21 19:55	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		06/05/21 19:55	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		06/05/21 19:55	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		06/05/21 19:55	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1
Pace Project No.: 70175100

Sample: GAC-09809 **Lab ID: 70175100002** Collected: 06/01/21 10:13 Received: 06/01/21 15:36 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									
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		06/05/21 19:55	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	103-65-1	
Styrene	<0.50	ug/L	0.50		1		06/05/21 19:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		06/05/21 19:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		06/05/21 19:55	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		06/05/21 19:55	127-18-4	
Toluene	<0.50	ug/L	0.50		1		06/05/21 19:55	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		06/05/21 19:55		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		06/05/21 19:55	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		06/05/21 19:55	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		06/05/21 19:55	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		06/05/21 19:55	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		06/05/21 19:55	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		06/05/21 19:55	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		06/05/21 19:55	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		06/05/21 19:55	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		06/05/21 19:55	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		06/05/21 19:55	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	87	%	70-130		1		06/05/21 19:55	2199-69-1	
4-Bromofluorobenzene (S)	89	%	70-130		1		06/05/21 19:55	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	06/07/21 11:07	06/17/21 02:35	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	06/07/21 11:07	06/17/21 02:35	375-85-9	
Perfluorohexanesulfonic acid	<1.9	ng/L	1.9		1	06/07/21 11:07	06/17/21 02:35	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	06/07/21 11:07	06/17/21 02:35	375-95-1	
Perfluorooctanesulfonic acid	<1.9	ng/L	1.9		10	06/07/21 11:07	06/17/21 02:35	1763-23-1	
Perfluorooctanoic acid	<1.9	ng/L	1.9		10	06/07/21 11:07	06/17/21 02:35	335-67-1	
Surrogates									
13C2-PFDA (S)	111	%	70-130		1	06/07/21 11:07	06/17/21 02:35		
13C2-PFHxA (S)	115	%	70-130		1	06/07/21 11:07	06/17/21 02:35		
HFPO-DAS (S)	115	%	70-130		1	06/07/21 11:07	06/17/21 02:35		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

Sample: N-02052 **Lab ID: 70175100003** **Collected: 06/01/21 08:30** Received: 06/01/21 15:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.90	ug/L	0.020		1	06/04/21 08:06	06/04/21 23:00	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	06/04/21 08:06	06/04/21 23:00		
524.3 MSV SIM									
Analytical Method: EPA 524.3									
Pace Analytical Services - Melville									
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010		1		06/03/21 17:24	106-93-4	
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1		06/03/21 17:24	96-12-8	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		06/03/21 17:24	2199-69-1	
tert Butyl Methyl-d3 Ether (S)	103	%	70-130		1		06/03/21 17:24	29366-08-3	
4-Bromofluorobenzene (S)	94	%	70-130		1		06/03/21 17:24	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	06/07/21 11:07	06/17/21 02:51	375-73-5	
Perfluoroheptanoic acid	2.0	ng/L	1.9		1	06/07/21 11:07	06/17/21 02:51	375-85-9	
Perfluorohexanesulfonic acid	3.5	ng/L	1.9		1	06/07/21 11:07	06/17/21 02:51	355-46-4	
Perfluorononanoic acid	31.6	ng/L	1.9		1	06/07/21 11:07	06/17/21 02:51	375-95-1	
Perfluorooctanesulfonic acid	6.5	ng/L	1.9	10	1	06/07/21 11:07	06/17/21 02:51	1763-23-1	
Perfluorooctanoic acid	5.7	ng/L	1.9	10	1	06/07/21 11:07	06/17/21 02:51	335-67-1	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	06/07/21 11:07	06/17/21 02:51		
13C2-PFHxA (S)	106	%	70-130		1	06/07/21 11:07	06/17/21 02:51		
HFPO-DAS (S)	100	%	70-130		1	06/07/21 11:07	06/17/21 02:51		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

Sample: GAC-02052	Lab ID: 70175100004	Collected: 06/01/21 08:38	Received: 06/01/21 15:36	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.88	ug/L	0.020		1	06/04/21 08:06	06/04/21 23:20	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	06/04/21 08:06	06/04/21 23:20		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		06/05/21 12:22	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		06/05/21 12:22	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		06/05/21 12:22	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		06/05/21 12:22	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		06/05/21 12:22	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		06/05/21 12:22	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		06/05/21 12:22	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		06/05/21 12:22	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		06/05/21 12:22	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		06/05/21 12:22	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		06/05/21 12:22	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		06/05/21 12:22	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		06/05/21 12:22	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		06/05/21 12:22	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		06/05/21 12:22	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		06/05/21 12:22	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		06/05/21 12:22	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		06/05/21 12:22	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		06/05/21 12:22	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		06/05/21 12:22	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		06/05/21 12:22	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		06/05/21 12:22	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		06/05/21 12:22	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		06/05/21 12:22	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		06/05/21 12:22	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		06/05/21 12:22	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		06/05/21 12:22	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		06/05/21 12:22	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		06/05/21 12:22	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		06/05/21 12:22	75-09-2	

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

Sample: GAC-02052	Lab ID: 70175100004	Collected: 06/01/21 08:38	Received: 06/01/21 15:36	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									
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		06/05/21 12:22	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	103-65-1	
Styrene	<0.50	ug/L	0.50		1		06/05/21 12:22	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		06/05/21 12:22	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		06/05/21 12:22	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		06/05/21 12:22	127-18-4	
Toluene	<0.50	ug/L	0.50		1		06/05/21 12:22	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		06/05/21 12:22		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		06/05/21 12:22	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		06/05/21 12:22	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		06/05/21 12:22	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		06/05/21 12:22	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		06/05/21 12:22	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		06/05/21 12:22	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		06/05/21 12:22	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		06/05/21 12:22	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		06/05/21 12:22	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		06/05/21 12:22	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		06/05/21 12:22	2199-69-1	
4-Bromofluorobenzene (S)	111	%	70-130		1		06/05/21 12:22	460-00-4	
524.3 MSV SIM									
Analytical Method: EPA 524.3									
Pace Analytical Services - Melville									
1,2-Dibromoethane (EDB)	0.011	ug/L	0.010		1		06/03/21 17:50	106-93-4	
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1		06/03/21 17:50	96-12-8	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		06/03/21 17:50	2199-69-1	
tert Butyl Methyl-d3 Ether (S)	101	%	70-130		1		06/03/21 17:50	29366-08-3	
4-Bromofluorobenzene (S)	94	%	70-130		1		06/03/21 17:50	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	06/07/21 11:07	06/17/21 03:07	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	06/07/21 11:07	06/17/21 03:07	375-85-9	
Perfluorohexanesulfonic acid	<1.9	ng/L	1.9		1	06/07/21 11:07	06/17/21 03:07	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	06/07/21 11:07	06/17/21 03:07	375-95-1	
Perfluorooctanesulfonic acid	<1.9	ng/L	1.9		10	06/07/21 11:07	06/17/21 03:07	1763-23-1	
Perfluorooctanoic acid	<1.9	ng/L	1.9		10	06/07/21 11:07	06/17/21 03:07	335-67-1	
Surrogates									
13C2-PFDA (S)	122	%	70-130		1	06/07/21 11:07	06/17/21 03:07		
13C2-PFHxA (S)	127	%	70-130		1	06/07/21 11:07	06/17/21 03:07		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

Sample: GAC-02052 **Lab ID: 70175100004** Collected: 06/01/21 08:38 Received: 06/01/21 15:36 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach									
Surrogates									
HFPO-DAS (S)	128	%	70-130		1	06/07/21 11:07	06/17/21 03:07		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

Sample: GAC-SH1/SH2 Lab ID: 70175100005 Collected: 06/01/21 08:04 Received: 06/01/21 15:36 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		06/05/21 20:22	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		06/05/21 20:22	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		06/05/21 20:22	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		06/05/21 20:22	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		06/05/21 20:22	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		06/05/21 20:22	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		06/05/21 20:22	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		06/05/21 20:22	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		06/05/21 20:22	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		06/05/21 20:22	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		06/05/21 20:22	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		06/05/21 20:22	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		06/05/21 20:22	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		06/05/21 20:22	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		06/05/21 20:22	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		06/05/21 20:22	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		06/05/21 20:22	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		06/05/21 20:22	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		06/05/21 20:22	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		06/05/21 20:22	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		06/05/21 20:22	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		06/05/21 20:22	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		06/05/21 20:22	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		06/05/21 20:22	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		06/05/21 20:22	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		06/05/21 20:22	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		06/05/21 20:22	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		06/05/21 20:22	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		06/05/21 20:22	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		06/05/21 20:22	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		06/05/21 20:22	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	103-65-1	
Styrene	<0.50	ug/L	0.50		1		06/05/21 20:22	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		06/05/21 20:22	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		06/05/21 20:22	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		06/05/21 20:22	127-18-4	

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1
Pace Project No.: 70175100

Sample: GAC-SH1/SH2 Lab ID: 70175100005 Collected: 06/01/21 08:04 Received: 06/01/21 15:36 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		06/05/21 20:22	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		06/05/21 20:22		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		06/05/21 20:22	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		06/05/21 20:22	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		06/05/21 20:22	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		06/05/21 20:22	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		06/05/21 20:22	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		06/05/21 20:22	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		06/05/21 20:22	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		06/05/21 20:22	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		06/05/21 20:22	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		06/05/21 20:22	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		06/05/21 20:22	2199-69-1	
4-Bromofluorobenzene (S)	90	%	70-130		1		06/05/21 20:22	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

Sample: AS-05209 **Lab ID: 70175100006** Collected: 06/01/21 07:45 Received: 06/01/21 15:36 Matrix: Drinking Water

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

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

Sample: AS-05209 **Lab ID: 70175100006** Collected: 06/01/21 07:45 Received: 06/01/21 15:36 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		06/05/21 20:48	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		06/05/21 20:48		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 20:48	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		06/05/21 20:48	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		06/05/21 20:48	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		06/05/21 20:48	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		06/05/21 20:48	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		06/05/21 20:48	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		06/05/21 20:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		06/05/21 20:48	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		06/05/21 20:48	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		06/05/21 20:48	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		06/05/21 20:48	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		06/05/21 20:48	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		06/05/21 20:48	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		06/05/21 20:48	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130		1		06/05/21 20:48	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1
Pace Project No.: 70175100

QC Batch: 212092 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70175100002, 70175100005, 70175100006

METHOD BLANK: 1062774 Matrix: Water

Associated Lab Samples: 70175100002, 70175100005, 70175100006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	06/05/21 10:32	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	06/05/21 10:32	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	06/05/21 10:32	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	06/05/21 10:32	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	06/05/21 10:32	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	06/05/21 10:32	
1,1-Dichloroethene	ug/L	<0.50	0.50	06/05/21 10:32	
1,1-Dichloropropene	ug/L	<0.50	0.50	06/05/21 10:32	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	06/05/21 10:32	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	06/05/21 10:32	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	06/05/21 10:32	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	06/05/21 10:32	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	06/05/21 10:32	
1,2-Dichloroethane	ug/L	<0.50	0.50	06/05/21 10:32	
1,2-Dichloropropane	ug/L	<0.50	0.50	06/05/21 10:32	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	06/05/21 10:32	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	06/05/21 10:32	
1,3-Dichloropropane	ug/L	<0.50	0.50	06/05/21 10:32	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	06/05/21 10:32	
2,2-Dichloropropane	ug/L	<0.50	0.50	06/05/21 10:32	
2-Chlorotoluene	ug/L	<0.50	0.50	06/05/21 10:32	
4-Chlorotoluene	ug/L	<0.50	0.50	06/05/21 10:32	
Benzene	ug/L	<0.50	0.50	06/05/21 10:32	
Bromobenzene	ug/L	<0.50	0.50	06/05/21 10:32	
Bromochloromethane	ug/L	<0.50	0.50	06/05/21 10:32	
Bromodichloromethane	ug/L	<0.50	0.50	06/05/21 10:32	
Bromoform	ug/L	<0.50	0.50	06/05/21 10:32	
Bromomethane	ug/L	<0.50	0.50	06/05/21 10:32	
Carbon tetrachloride	ug/L	<0.50	0.50	06/05/21 10:32	
Chlorobenzene	ug/L	<0.50	0.50	06/05/21 10:32	
Chlorodifluoromethane	ug/L	<0.50	0.50	06/05/21 10:32	N3
Chloroethane	ug/L	<0.50	0.50	06/05/21 10:32	
Chloroform	ug/L	<0.50	0.50	06/05/21 10:32	
Chloromethane	ug/L	<0.50	0.50	06/05/21 10:32	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	06/05/21 10:32	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	06/05/21 10:32	
Dibromochloromethane	ug/L	<0.50	0.50	06/05/21 10:32	
Dibromomethane	ug/L	<0.50	0.50	06/05/21 10:32	
Dichlorodifluoromethane	ug/L	<0.50	0.50	06/05/21 10:32	
Ethylbenzene	ug/L	<0.50	0.50	06/05/21 10:32	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1
Pace Project No.: 70175100

METHOD BLANK: 1062774 Matrix: Water
Associated Lab Samples: 70175100002, 70175100005, 70175100006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	06/05/21 10:32	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	06/05/21 10:32	
m&p-Xylene	ug/L	<0.50	0.50	06/05/21 10:32	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	06/05/21 10:32	
Methylene Chloride	ug/L	<0.50	0.50	06/05/21 10:32	
n-Butylbenzene	ug/L	<0.50	0.50	06/05/21 10:32	
n-Propylbenzene	ug/L	<0.50	0.50	06/05/21 10:32	
o-Xylene	ug/L	<0.50	0.50	06/05/21 10:32	
p-Isopropyltoluene	ug/L	<0.50	0.50	06/05/21 10:32	
sec-Butylbenzene	ug/L	<0.50	0.50	06/05/21 10:32	
Styrene	ug/L	<0.50	0.50	06/05/21 10:32	
tert-Butylbenzene	ug/L	<0.50	0.50	06/05/21 10:32	
Tetrachloroethene	ug/L	<0.50	0.50	06/05/21 10:32	
Toluene	ug/L	<0.50	0.50	06/05/21 10:32	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	06/05/21 10:32	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	06/05/21 10:32	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	06/05/21 10:32	
Trichloroethene	ug/L	<0.50	0.50	06/05/21 10:32	
Trichlorofluoromethane	ug/L	<0.50	0.50	06/05/21 10:32	
Vinyl chloride	ug/L	<0.50	0.50	06/05/21 10:32	
1,2-Dichlorobenzene-d4 (S)	%	89	70-130	06/05/21 10:32	
4-Bromofluorobenzene (S)	%	91	70-130	06/05/21 10:32	

LABORATORY CONTROL SAMPLE: 1062775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.6	106	70-130	
1,1,1-Trichloroethane	ug/L	10	10.3	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	11.4	114	70-130	
1,1,2-Trichloroethane	ug/L	10	11.2	112	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	9.6	96	70-130	N3
1,1-Dichloroethane	ug/L	10	11.3	113	70-130	
1,1-Dichloroethene	ug/L	10	12.3	123	70-130	
1,1-Dichloropropene	ug/L	10	11.8	118	70-130	
1,2,3-Trichlorobenzene	ug/L	10	10.8	108	70-130	
1,2,3-Trichloropropane	ug/L	10	12.3	123	70-130	
1,2,4-Trichlorobenzene	ug/L	10	11.5	115	70-130	
1,2,4-Trimethylbenzene	ug/L	10	11.9	119	70-130	
1,2-Dichlorobenzene	ug/L	10	11.6	116	70-130	
1,2-Dichloroethane	ug/L	10	11.7	117	70-130	
1,2-Dichloropropane	ug/L	10	10.7	107	70-130	
1,3,5-Trimethylbenzene	ug/L	10	11.1	111	70-130	
1,3-Dichlorobenzene	ug/L	10	12.4	124	70-130	
1,3-Dichloropropane	ug/L	10	11.4	114	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1
Pace Project No.: 70175100

LABORATORY CONTROL SAMPLE: 1062775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	12.6	126	70-130	
2,2-Dichloropropane	ug/L	10	10.8	108	70-130	
2-Chlorotoluene	ug/L	10	11.8	118	70-130	
4-Chlorotoluene	ug/L	10	11.7	117	70-130	
Benzene	ug/L	10	11.0	110	70-130	
Bromobenzene	ug/L	10	11.6	116	70-130	
Bromochloromethane	ug/L	10	11.0	110	70-130	
Bromodichloromethane	ug/L	10	10	100	70-130	
Bromoform	ug/L	10	11.6	116	70-130	
Bromomethane	ug/L	10	8.8	88	70-130	
Carbon tetrachloride	ug/L	10	10.7	107	70-130	
Chlorobenzene	ug/L	10	11.4	114	70-130	
Chlorodifluoromethane	ug/L	10	7.9	79	70-130	N3
Chloroethane	ug/L	10	10.8	108	70-130	
Chloroform	ug/L	10	11.2	112	70-130	
Chloromethane	ug/L	10	8.5	85	70-130	
cis-1,2-Dichloroethene	ug/L	10	10.6	106	70-130	
cis-1,3-Dichloropropene	ug/L	10	10.4	104	70-130	
Dibromochloromethane	ug/L	10	10.5	105	70-130	
Dibromomethane	ug/L	10	11.0	110	70-130	
Dichlorodifluoromethane	ug/L	10	9.5	95	70-130	
Ethylbenzene	ug/L	10	12.0	120	70-130	
Hexachloro-1,3-butadiene	ug/L	10	12.0	120	70-130	
Isopropylbenzene (Cumene)	ug/L	10	11.3	113	70-130	
m&p-Xylene	ug/L	20	23.1	115	70-130	
Methyl-tert-butyl ether	ug/L	10	12.4	124	70-130	IH
Methylene Chloride	ug/L	10	10	100	70-130	
n-Butylbenzene	ug/L	10	11.9	119	70-130	
n-Propylbenzene	ug/L	10	12.4	124	70-130	
o-Xylene	ug/L	10	11.6	116	70-130	
p-Isopropyltoluene	ug/L	10	11.8	118	70-130	
sec-Butylbenzene	ug/L	10	11.7	117	70-130	
Styrene	ug/L	10	12.0	120	70-130	
tert-Butylbenzene	ug/L	10	11.3	113	70-130	
Tetrachloroethene	ug/L	10	11.5	115	70-130	
Toluene	ug/L	10	11.6	116	70-130	
Total Trihalomethanes (Calc.)	ug/L		43.2			
trans-1,2-Dichloroethene	ug/L	10	11.1	111	70-130	
trans-1,3-Dichloropropene	ug/L	10	11.1	111	70-130	
Trichloroethene	ug/L	10	11.0	110	70-130	
Trichlorofluoromethane	ug/L	10	12.5	125	70-130	
Vinyl chloride	ug/L	10	9.9	99	70-130	
1,2-Dichlorobenzene-d4 (S)	%			119	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

SAMPLE DUPLICATE: 1063491

Parameter	Units	70175470003 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	<0.50	<0.50		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	
Ethylbenzene	ug/L	<0.50	<0.50		20	
Hexachloro-1,3-butadiene	ug/L	<0.50	<0.50		20	
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50		20	
m&p-Xylene	ug/L	<0.50	<0.50		20	
Methyl-tert-butyl ether	ug/L	<0.50	<0.50		20	
Methylene Chloride	ug/L	<0.50	<0.50		20	
n-Butylbenzene	ug/L	<0.50	<0.50		20	
n-Propylbenzene	ug/L	<0.50	<0.50		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

SAMPLE DUPLICATE: 1063491

Parameter	Units	70175470003 Result	Dup Result	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	<0.50	<0.50		20	
p-Isopropyltoluene	ug/L	<0.50	<0.50		20	
sec-Butylbenzene	ug/L	<0.50	<0.50		20	
Styrene	ug/L	<0.50	<0.50		20	
tert-Butylbenzene	ug/L	<0.50	<0.50		20	
Tetrachloroethene	ug/L	<0.50	<0.50		20	
Toluene	ug/L	<0.50	<0.50		20	
Total Trihalomethanes (Calc.)	ug/L	<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	12.5	10.8	15	20	
Trichlorofluoromethane	ug/L	<0.50	<0.50		20	
Vinyl chloride	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene-d4 (S)	%	99	89		20	
4-Bromofluorobenzene (S)	%	98	86		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1
Pace Project No.: 70175100

QC Batch: 212096 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70175100004

METHOD BLANK: 1062810 Matrix: Water
Associated Lab Samples: 70175100004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	06/05/21 10:30	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	06/05/21 10:30	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	06/05/21 10:30	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	06/05/21 10:30	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	06/05/21 10:30	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	06/05/21 10:30	
1,1-Dichloroethene	ug/L	<0.50	0.50	06/05/21 10:30	
1,1-Dichloropropene	ug/L	<0.50	0.50	06/05/21 10:30	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	06/05/21 10:30	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	06/05/21 10:30	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	06/05/21 10:30	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	06/05/21 10:30	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	06/05/21 10:30	
1,2-Dichloroethane	ug/L	<0.50	0.50	06/05/21 10:30	
1,2-Dichloropropane	ug/L	<0.50	0.50	06/05/21 10:30	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	06/05/21 10:30	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	06/05/21 10:30	
1,3-Dichloropropane	ug/L	<0.50	0.50	06/05/21 10:30	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	06/05/21 10:30	
2,2-Dichloropropane	ug/L	<0.50	0.50	06/05/21 10:30	
2-Chlorotoluene	ug/L	<0.50	0.50	06/05/21 10:30	
4-Chlorotoluene	ug/L	<0.50	0.50	06/05/21 10:30	
Benzene	ug/L	<0.50	0.50	06/05/21 10:30	
Bromobenzene	ug/L	<0.50	0.50	06/05/21 10:30	
Bromochloromethane	ug/L	<0.50	0.50	06/05/21 10:30	
Bromodichloromethane	ug/L	<0.50	0.50	06/05/21 10:30	
Bromoform	ug/L	<0.50	0.50	06/05/21 10:30	
Bromomethane	ug/L	<0.50	0.50	06/05/21 10:30	
Carbon tetrachloride	ug/L	<0.50	0.50	06/05/21 10:30	
Chlorobenzene	ug/L	<0.50	0.50	06/05/21 10:30	
Chlorodifluoromethane	ug/L	<0.50	0.50	06/05/21 10:30	N3
Chloroethane	ug/L	<0.50	0.50	06/05/21 10:30	
Chloroform	ug/L	<0.50	0.50	06/05/21 10:30	
Chloromethane	ug/L	<0.50	0.50	06/05/21 10:30	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	06/05/21 10:30	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	06/05/21 10:30	
Dibromochloromethane	ug/L	<0.50	0.50	06/05/21 10:30	
Dibromomethane	ug/L	<0.50	0.50	06/05/21 10:30	
Dichlorodifluoromethane	ug/L	<0.50	0.50	06/05/21 10:30	
Ethylbenzene	ug/L	<0.50	0.50	06/05/21 10:30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

METHOD BLANK: 1062810

Matrix: Water

Associated Lab Samples: 70175100004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	06/05/21 10:30	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	06/05/21 10:30	
m&p-Xylene	ug/L	<0.50	0.50	06/05/21 10:30	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	06/05/21 10:30	
Methylene Chloride	ug/L	<0.50	0.50	06/05/21 10:30	
n-Butylbenzene	ug/L	<0.50	0.50	06/05/21 10:30	
n-Propylbenzene	ug/L	<0.50	0.50	06/05/21 10:30	
o-Xylene	ug/L	<0.50	0.50	06/05/21 10:30	
p-Isopropyltoluene	ug/L	<0.50	0.50	06/05/21 10:30	
sec-Butylbenzene	ug/L	<0.50	0.50	06/05/21 10:30	
Styrene	ug/L	<0.50	0.50	06/05/21 10:30	
tert-Butylbenzene	ug/L	<0.50	0.50	06/05/21 10:30	
Tetrachloroethene	ug/L	<0.50	0.50	06/05/21 10:30	
Toluene	ug/L	<0.50	0.50	06/05/21 10:30	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	06/05/21 10:30	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	06/05/21 10:30	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	06/05/21 10:30	
Trichloroethene	ug/L	<0.50	0.50	06/05/21 10:30	
Trichlorofluoromethane	ug/L	<0.50	0.50	06/05/21 10:30	
Vinyl chloride	ug/L	<0.50	0.50	06/05/21 10:30	
1,2-Dichlorobenzene-d4 (S)	%	110	70-130	06/05/21 10:30	
4-Bromofluorobenzene (S)	%	111	70-130	06/05/21 10:30	

LABORATORY CONTROL SAMPLE: 1062811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.7	107	70-130	
1,1,1-Trichloroethane	ug/L	10	10.8	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	11.4	114	70-130	
1,1,2-Trichloroethane	ug/L	10	11.3	113	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	8.0	80	70-130	N3
1,1-Dichloroethane	ug/L	10	11.3	113	70-130	
1,1-Dichloroethene	ug/L	10	10.6	106	70-130	
1,1-Dichloropropene	ug/L	10	12.1	121	70-130	
1,2,3-Trichlorobenzene	ug/L	10	11.9	119	70-130	
1,2,3-Trichloropropane	ug/L	10	11.5	115	70-130	
1,2,4-Trichlorobenzene	ug/L	10	11.7	117	70-130	
1,2,4-Trimethylbenzene	ug/L	10	11.7	117	70-130	
1,2-Dichlorobenzene	ug/L	10	11.5	115	70-130	
1,2-Dichloroethane	ug/L	10	12.2	122	70-130	
1,2-Dichloropropane	ug/L	10	11.6	116	70-130	
1,3,5-Trimethylbenzene	ug/L	10	11.2	112	70-130	
1,3-Dichlorobenzene	ug/L	10	11.2	112	70-130	
1,3-Dichloropropane	ug/L	10	11.4	114	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1
Pace Project No.: 70175100

LABORATORY CONTROL SAMPLE: 1062811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	11.3	113	70-130	
2,2-Dichloropropane	ug/L	10	10.7	107	70-130	
2-Chlorotoluene	ug/L	10	11.2	112	70-130	
4-Chlorotoluene	ug/L	10	10.5	105	70-130	
Benzene	ug/L	10	11.1	111	70-130	
Bromobenzene	ug/L	10	11.0	110	70-130	
Bromochloromethane	ug/L	10	10.4	104	70-130	
Bromodichloromethane	ug/L	10	10.1	101	70-130	
Bromoform	ug/L	10	10.3	103	70-130	
Bromomethane	ug/L	10	10.9	109	70-130	
Carbon tetrachloride	ug/L	10	10.3	103	70-130	
Chlorobenzene	ug/L	10	11.0	110	70-130	
Chlorodifluoromethane	ug/L	10	7.3	73	70-130	N3
Chloroethane	ug/L	10	9.5	95	70-130	
Chloroform	ug/L	10	11.3	113	70-130	
Chloromethane	ug/L	10	9.3	93	70-130	
cis-1,2-Dichloroethene	ug/L	10	9.9	99	70-130	
cis-1,3-Dichloropropene	ug/L	10	10.8	108	70-130	
Dibromochloromethane	ug/L	10	9.7	97	70-130	
Dibromomethane	ug/L	10	11.5	115	70-130	
Dichlorodifluoromethane	ug/L	10	9.0	90	70-130	
Ethylbenzene	ug/L	10	11.5	115	70-130	
Hexachloro-1,3-butadiene	ug/L	10	10.9	109	70-130	
Isopropylbenzene (Cumene)	ug/L	10	11.4	114	70-130	
m&p-Xylene	ug/L	20	21.8	109	70-130	
Methyl-tert-butyl ether	ug/L	10	12.1	121	70-130	
Methylene Chloride	ug/L	10	10.9	109	70-130	
n-Butylbenzene	ug/L	10	11.6	116	70-130	
n-Propylbenzene	ug/L	10	11.4	114	70-130	
o-Xylene	ug/L	10	10.9	109	70-130	
p-Isopropyltoluene	ug/L	10	11.0	110	70-130	
sec-Butylbenzene	ug/L	10	11.4	114	70-130	
Styrene	ug/L	10	11.4	114	70-130	
tert-Butylbenzene	ug/L	10	11.2	112	70-130	
Tetrachloroethene	ug/L	10	10.9	109	70-130	
Toluene	ug/L	10	10.7	107	70-130	
Total Trihalomethanes (Calc.)	ug/L		41.5			
trans-1,2-Dichloroethene	ug/L	10	9.8	98	70-130	
trans-1,3-Dichloropropene	ug/L	10	10.9	109	70-130	
Trichloroethene	ug/L	10	10.9	109	70-130	
Trichlorofluoromethane	ug/L	10	11.1	111	70-130	
Vinyl chloride	ug/L	10	10.8	108	70-130	
1,2-Dichlorobenzene-d4 (S)	%			117	70-130	
4-Bromofluorobenzene (S)	%			114	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

SAMPLE DUPLICATE: 1063490

Parameter	Units	70175484003 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	0.57	<0.50		20	
Bromomethane	ug/L	<0.50	<0.50		20	
Carbon tetrachloride	ug/L	<0.50	<0.50		20	
Chlorobenzene	ug/L	<0.50	<0.50		20	
Chlorodifluoromethane	ug/L	<0.50	<0.50		20	N3
Chloroethane	ug/L	<0.50	<0.50		20	
Chloroform	ug/L	<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	0.65	0.74	12	20	
Dibromomethane	ug/L	<0.50	<0.50		20	
Dichlorodifluoromethane	ug/L	<0.50	<0.50		20	
Ethylbenzene	ug/L	<0.50	<0.50		20	
Hexachloro-1,3-butadiene	ug/L	<0.50	<0.50		20	
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50		20	
m&p-Xylene	ug/L	<0.50	<0.50		20	
Methyl-tert-butyl ether	ug/L	<0.50	<0.50		20	
Methylene Chloride	ug/L	<0.50	<0.50		20	
n-Butylbenzene	ug/L	<0.50	<0.50		20	
n-Propylbenzene	ug/L	<0.50	<0.50		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

SAMPLE DUPLICATE: 1063490

Parameter	Units	70175484003 Result	Dup Result	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	<0.50	<0.50		20	
p-Isopropyltoluene	ug/L	<0.50	<0.50		20	
sec-Butylbenzene	ug/L	<0.50	<0.50		20	
Styrene	ug/L	<0.50	<0.50		20	
tert-Butylbenzene	ug/L	<0.50	<0.50		20	
Tetrachloroethene	ug/L	<0.50	<0.50		20	
Toluene	ug/L	<0.50	<0.50		20	
Total Trihalomethanes (Calc.)	ug/L	1.2	0.74	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	<0.50	<0.50		20	
Trichlorofluoromethane	ug/L	<0.50	<0.50		20	
Vinyl chloride	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene-d4 (S)	%	112	116		20	
4-Bromofluorobenzene (S)	%	112	112		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

QC Batch: 211797	Analysis Method: EPA 524.3
QC Batch Method: EPA 524.3	Analysis Description: 524.3 MSV
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70175100003, 70175100004

METHOD BLANK: 1060952 Matrix: Water

Associated Lab Samples: 70175100003, 70175100004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.010	06/03/21 14:51	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.010	06/03/21 14:51	
1,2-Dichlorobenzene-d4 (S)	%	106	70-130	06/03/21 14:51	
4-Bromofluorobenzene (S)	%	92	70-130	06/03/21 14:51	
tert Butyl Methyl-d3 Ether (S)	%	95	70-130	06/03/21 14:51	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1062308 1062309

Parameter	Units	70175438001		1062309		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.05	0.05	0.061	0.058	122	115	70-130	5	30	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.05	0.05	0.058	0.058	115	117	70-130	1	30	
1,2-Dichlorobenzene-d4 (S)	%						109	105	70-130			
4-Bromofluorobenzene (S)	%						92	91	70-130			
tert Butyl Methyl-d3 Ether (S)	%						98	97	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1
Pace Project No.: 70175100

QC Batch: 211668 Analysis Method: EPA 522
QC Batch Method: EPA 522 Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70175100001, 70175100002, 70175100003, 70175100004

METHOD BLANK: 1060546 Matrix: Drinking Water
Associated Lab Samples: 70175100001, 70175100002, 70175100003, 70175100004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	06/04/21 16:25	
1,4-Dioxane-d8 (S)	%	94	70-130	06/04/21 16:25	

LABORATORY CONTROL SAMPLE: 1060547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.9	95	70-130	
1,4-Dioxane-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 1060548

Parameter	Units	70175172002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.036	2	1.8	90	70-130	
1,4-Dioxane-d8 (S)	%				93	70-130	

SAMPLE DUPLICATE: 1060550

Parameter	Units	70175005001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	8.5	8.5	0	20	E
1,4-Dioxane-d8 (S)	%	98	93		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1
Pace Project No.: 70175100

QC Batch: 735423	Analysis Method: EPA 537.1
QC Batch Method: EPA 537.1	Analysis Description: 537.1 PFOA Compounds, Water
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70175100001, 70175100002, 70175100003, 70175100004

METHOD BLANK: 4012353 Matrix: Water
Associated Lab Samples: 70175100001, 70175100002, 70175100003, 70175100004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	06/16/21 23:57	
Perfluoroheptanoic acid	ng/L	ND	2.0	06/16/21 23:57	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	06/16/21 23:57	
Perfluorononanoic acid	ng/L	ND	2.0	06/16/21 23:57	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	06/16/21 23:57	
Perfluorooctanoic acid	ng/L	ND	2.0	06/16/21 23:57	
13C2-PFDA (S)	%	97	70-130	06/16/21 23:57	
13C2-PFHxA (S)	%	100	70-130	06/16/21 23:57	
HFPO-DAS (S)	%	103	70-130	06/16/21 23:57	
NETFOSAA-d5 (S)	%	105	70-130	06/16/21 23:57	

LABORATORY CONTROL SAMPLE: 4012354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	8.1	114	70-130	
Perfluoroheptanoic acid	ng/L	8	7.6	95	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.4	101	70-130	
Perfluorononanoic acid	ng/L	8	8.1	101	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	8.6	116	70-130	
Perfluorooctanoic acid	ng/L	8	8.9	112	70-130	
13C2-PFDA (S)	%			98	70-130	
13C2-PFHxA (S)	%			99	70-130	
HFPO-DAS (S)	%			97	70-130	
NETFOSAA-d5 (S)	%			109	70-130	

LABORATORY CONTROL SAMPLE: 4012355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	2.1	121	50-150	
Perfluoroheptanoic acid	ng/L	2	1.9J	93	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	2.1	116	50-150	
Perfluorononanoic acid	ng/L	2	ND	97	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	2.4	129	50-150	
Perfluorooctanoic acid	ng/L	2	2.3	113	50-150	
13C2-PFDA (S)	%			96	70-130	
13C2-PFHxA (S)	%			99	70-130	
HFPO-DAS (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

LABORATORY CONTROL SAMPLE: 4012355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			105	70-130	

SAMPLE DUPLICATE: 4012357

Parameter	Units	70175005004 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	<1.8		30	
Perfluoroheptanoic acid	ng/L	<1.8	<1.8		30	
Perfluorohexanesulfonic acid	ng/L	<1.8	<1.8		30	
Perfluorononanoic acid	ng/L	<1.8	<1.8		30	
Perfluorooctanesulfonic acid	ng/L	<1.8	<1.8		30	
Perfluorooctanoic acid	ng/L	<1.8	<1.8		30	
13C2-PFDA (S)	%	95	110			
13C2-PFHxA (S)	%	97	112			
HFPO-DAS (S)	%	101	111			
NEtFOSAA-d5 (S)	%	106	123			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1,4 DIOX/PFAS/POC/524.3 6/1

Pace Project No.: 70175100

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.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOX/PFAS/POC/524.3 6/1
Pace Project No.: 70175100

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70175100001	N-09809	EPA 522	211668	EPA 522	212001
70175100002	GAC-09809	EPA 522	211668	EPA 522	212001
70175100003	N-02052	EPA 522	211668	EPA 522	212001
70175100004	GAC-02052	EPA 522	211668	EPA 522	212001
70175100002	GAC-09809	EPA 524.2	212092		
70175100004	GAC-02052	EPA 524.2	212096		
70175100005	GAC-SH1/SH2	EPA 524.2	212092		
70175100006	AS-05209	EPA 524.2	212092		
70175100003	N-02052	EPA 524.3	211797		
70175100004	GAC-02052	EPA 524.3	211797		
70175100001	N-09809	EPA 537.1	735423	EPA 537.1	737765
70175100002	GAC-09809	EPA 537.1	735423	EPA 537.1	737765
70175100003	N-02052	EPA 537.1	735423	EPA 537.1	737765
70175100004	GAC-02052	EPA 537.1	735423	EPA 537.1	737765

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 70175100

Client Name: PWW

Proj

PM: JSA

Due Date: 06/10/21

CLIENT: PWW

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes NoPacking Material: Bubble Wrap Bubble Bags Ziploc None OtherThermometer Used: TH091 Correction Factor: +0.0Cooler Temperature(°C): 2.9Cooler Temperature Corrected(°C): 2.9Temperature Blank Present: Yes NoType of Ice: Wet Blue None Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)Date and Initials of person examining contents: I.I 6/11/21
1836Did 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 NoDid samples originate from a foreign source including Hawaii and Puerto Rico? Yes No

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

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

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

June 23, 2021

Supt. Tal Vacchio
Port Washington W.D.
P.O. BOX 432
Port Washington, NY 11050

RE: Project: POC/1,4 DIOXANE/PFAS 6/7
Pace Project No.: 70175851

Dear Supt. Tal Vacchio:

Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 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
Jim Van Horn
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Lisa Ortiz, D&B
Xavier Sardoni, D&B Engineers
Jasper Skliba, Port Washington W.D.
Reports User, Port Washington W.D.
Richard Zimbardi, Port Washington W.D.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: POC/1,4 DIOXANE/PFAS 6/7
Pace Project No.: 70175851

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236

Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: POC/1,4 DIOXANE/PFAS 6/7
Pace Project No.: 70175851

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70175851001	AS-8/9/11	Drinking Water	06/07/21 08:41	06/07/21 13:47
70175851002	N-07552	Drinking Water	06/07/21 08:29	06/07/21 13:47
70175851003	N-05876	Drinking Water	06/07/21 07:37	06/07/21 13:47

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SAMPLE ANALYTE COUNT

Project: POC/1,4 DIOXANE/PFAS 6/7

Pace Project No.: 70175851

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70175851001	AS-8/9/11	EPA 522	JMD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70175851002	N-07552	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70175851003	N-05876	EPA 522	JMD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	SWR	9	PASI-O

PACE-MV = Pace Analytical Services - Melville

PASI-O = Pace Analytical Services - Ormond Beach

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ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE/PFAS 6/7

Pace Project No.: 70175851

Sample: AS-8/9/11 **Lab ID: 70175851001** Collected: 06/07/21 08:41 Received: 06/07/21 13:47 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	2.4	ug/L	0.020		1	06/08/21 15:31	06/09/21 19:24	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	06/08/21 15:31	06/09/21 19:24		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		06/12/21 14:12	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		06/12/21 14:12	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		06/12/21 14:12	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		06/12/21 14:12	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		06/12/21 14:12	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		06/12/21 14:12	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		06/12/21 14:12	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		06/12/21 14:12	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		06/12/21 14:12	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		06/12/21 14:12	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		06/12/21 14:12	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		06/12/21 14:12	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		06/12/21 14:12	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		06/12/21 14:12	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		06/12/21 14:12	75-71-8	L2,v3
1,1-Dichloroethane	<0.50	ug/L	0.50		1		06/12/21 14:12	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		06/12/21 14:12	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		06/12/21 14:12	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		06/12/21 14:12	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		06/12/21 14:12	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		06/12/21 14:12	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		06/12/21 14:12	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		06/12/21 14:12	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		06/12/21 14:12	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		06/12/21 14:12	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		06/12/21 14:12	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		06/12/21 14:12	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		06/12/21 14:12	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		06/12/21 14:12	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		06/12/21 14:12	75-09-2	

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ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE/PFAS 6/7

Pace Project No.: 70175851

Sample: AS-8/9/11 **Lab ID: 70175851001** Collected: 06/07/21 08:41 Received: 06/07/21 13:47 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									
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		06/12/21 14:12	1634-04-4	L1
n-Propylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	103-65-1	
Styrene	<0.50	ug/L	0.50		1		06/12/21 14:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		06/12/21 14:12	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		06/12/21 14:12	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		06/12/21 14:12	127-18-4	
Toluene	<0.50	ug/L	0.50		1		06/12/21 14:12	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		06/12/21 14:12		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		06/12/21 14:12	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		06/12/21 14:12	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		06/12/21 14:12	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		06/12/21 14:12	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		06/12/21 14:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		06/12/21 14:12	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:12	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		06/12/21 14:12	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		06/12/21 14:12	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		06/12/21 14:12	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	91	%	70-130		1		06/12/21 14:12	2199-69-1	
4-Bromofluorobenzene (S)	90	%	70-130		1		06/12/21 14:12	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	06/21/21 16:27	06/23/21 08:46	375-73-5	
Perfluoroheptanoic acid	2.2	ng/L	1.9		1	06/21/21 16:27	06/23/21 08:46	375-85-9	
Perfluorohexanesulfonic acid	3.2	ng/L	1.9		1	06/21/21 16:27	06/23/21 08:46	355-46-4	
Perfluorononanoic acid	3.7	ng/L	1.9		1	06/21/21 16:27	06/23/21 08:46	375-95-1	
Perfluorooctanesulfonic acid	4.4	ng/L	1.9	10	1	06/21/21 16:27	06/23/21 08:46	1763-23-1	
Perfluorooctanoic acid	5.9	ng/L	1.9	10	1	06/21/21 16:27	06/23/21 08:46	335-67-1	
Surrogates									
13C2-PFDA (S)	112	%	70-130		1	06/21/21 16:27	06/23/21 08:46		
13C2-PFHxA (S)	110	%	70-130		1	06/21/21 16:27	06/23/21 08:46		
HFPO-DAS (S)	108	%	70-130		1	06/21/21 16:27	06/23/21 08:46		

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ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE/PFAS 6/7
Pace Project No.: 70175851

Sample: N-07552 **Lab ID: 70175851002** **Collected: 06/07/21 08:29** Received: 06/07/21 13:47 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	5.4	ug/L	0.10		5	06/08/21 15:31	06/10/21 12:44	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		5	06/08/21 15:31	06/10/21 12:44		
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	06/21/21 16:27	06/23/21 08:27	375-73-5	
Perfluoroheptanoic acid	2.0	ng/L	1.9		1	06/21/21 16:27	06/23/21 08:27	375-85-9	
Perfluorohexanesulfonic acid	3.2	ng/L	1.9		1	06/21/21 16:27	06/23/21 08:27	355-46-4	
Perfluorononanoic acid	6.6	ng/L	1.9		1	06/21/21 16:27	06/23/21 08:27	375-95-1	
Perfluorooctanesulfonic acid	4.9	ng/L	1.9	10	1	06/21/21 16:27	06/23/21 08:27	1763-23-1	
Perfluorooctanoic acid	5.7	ng/L	1.9	10	1	06/21/21 16:27	06/23/21 08:27	335-67-1	
Surrogates									
13C2-PFDA (S)	111	%	70-130		1	06/21/21 16:27	06/23/21 08:27		
13C2-PFHxA (S)	110	%	70-130		1	06/21/21 16:27	06/23/21 08:27		
HFPO-DAS (S)	112	%	70-130		1	06/21/21 16:27	06/23/21 08:27		

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ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE/PFAS 6/7

Pace Project No.: 70175851

Sample: N-05876 **Lab ID: 70175851003** Collected: 06/07/21 07:37 Received: 06/07/21 13:47 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.29	ug/L	0.020		1	06/08/21 15:31	06/09/21 19:58	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	85	%	70-130		1	06/08/21 15:31	06/09/21 19:58		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		06/12/21 14:38	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		06/12/21 14:38	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		06/12/21 14:38	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		06/12/21 14:38	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		06/12/21 14:38	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		06/12/21 14:38	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		06/12/21 14:38	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		06/12/21 14:38	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		06/12/21 14:38	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		06/12/21 14:38	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		06/12/21 14:38	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		06/12/21 14:38	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		06/12/21 14:38	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		06/12/21 14:38	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		06/12/21 14:38	75-71-8	L2,v3
1,1-Dichloroethane	<0.50	ug/L	0.50		1		06/12/21 14:38	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		06/12/21 14:38	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		06/12/21 14:38	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		06/12/21 14:38	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		06/12/21 14:38	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		06/12/21 14:38	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		06/12/21 14:38	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		06/12/21 14:38	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		06/12/21 14:38	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		06/12/21 14:38	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		06/12/21 14:38	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		06/12/21 14:38	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		06/12/21 14:38	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		06/12/21 14:38	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		06/12/21 14:38	75-09-2	

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ANALYTICAL RESULTS

Project: POC/1,4 DIOXANE/PFAS 6/7

Pace Project No.: 70175851

Sample: N-05876 **Lab ID: 70175851003** Collected: 06/07/21 07:37 Received: 06/07/21 13:47 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									
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		06/12/21 14:38	1634-04-4	L1
n-Propylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	103-65-1	
Styrene	<0.50	ug/L	0.50		1		06/12/21 14:38	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		06/12/21 14:38	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		06/12/21 14:38	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50		1		06/12/21 14:38	127-18-4	
Toluene	<0.50	ug/L	0.50		1		06/12/21 14:38	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		06/12/21 14:38		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		06/12/21 14:38	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		06/12/21 14:38	79-00-5	
Trichloroethene	<0.50	ug/L	0.50		1		06/12/21 14:38	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		06/12/21 14:38	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		06/12/21 14:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		06/12/21 14:38	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		06/12/21 14:38	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		06/12/21 14:38	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		06/12/21 14:38	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		06/12/21 14:38	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	91	%	70-130		1		06/12/21 14:38	2199-69-1	
4-Bromofluorobenzene (S)	98	%	70-130		1		06/12/21 14:38	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	06/21/21 16:27	06/23/21 08:08	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	06/21/21 16:27	06/23/21 08:08	375-85-9	
Perfluorohexanesulfonic acid	<1.9	ng/L	1.9		1	06/21/21 16:27	06/23/21 08:08	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	06/21/21 16:27	06/23/21 08:08	375-95-1	
Perfluorooctanesulfonic acid	<1.9	ng/L	1.9		10	06/21/21 16:27	06/23/21 08:08	1763-23-1	
Perfluorooctanoic acid	3.2	ng/L	1.9		10	06/21/21 16:27	06/23/21 08:08	335-67-1	
Surrogates									
13C2-PFDA (S)	111	%	70-130		1	06/21/21 16:27	06/23/21 08:08		
13C2-PFHxA (S)	106	%	70-130		1	06/21/21 16:27	06/23/21 08:08		
HFPO-DAS (S)	103	%	70-130		1	06/21/21 16:27	06/23/21 08:08		

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QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE/PFAS 6/7
Pace Project No.: 70175851

QC Batch: 213210 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70175851001, 70175851003

METHOD BLANK: 1070778 Matrix: Water

Associated Lab Samples: 70175851001, 70175851003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	06/12/21 11:07	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	06/12/21 11:07	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	06/12/21 11:07	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	06/12/21 11:07	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	06/12/21 11:07	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	06/12/21 11:07	
1,1-Dichloroethene	ug/L	<0.50	0.50	06/12/21 11:07	
1,1-Dichloropropene	ug/L	<0.50	0.50	06/12/21 11:07	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	06/12/21 11:07	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	06/12/21 11:07	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	06/12/21 11:07	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	06/12/21 11:07	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	06/12/21 11:07	
1,2-Dichloroethane	ug/L	<0.50	0.50	06/12/21 11:07	
1,2-Dichloropropane	ug/L	<0.50	0.50	06/12/21 11:07	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	06/12/21 11:07	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	06/12/21 11:07	
1,3-Dichloropropane	ug/L	<0.50	0.50	06/12/21 11:07	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	06/12/21 11:07	
2,2-Dichloropropane	ug/L	<0.50	0.50	06/12/21 11:07	
2-Chlorotoluene	ug/L	<0.50	0.50	06/12/21 11:07	
4-Chlorotoluene	ug/L	<0.50	0.50	06/12/21 11:07	
Benzene	ug/L	<0.50	0.50	06/12/21 11:07	
Bromobenzene	ug/L	<0.50	0.50	06/12/21 11:07	
Bromochloromethane	ug/L	<0.50	0.50	06/12/21 11:07	
Bromodichloromethane	ug/L	<0.50	0.50	06/12/21 11:07	
Bromoform	ug/L	<0.50	0.50	06/12/21 11:07	
Bromomethane	ug/L	<0.50	0.50	06/12/21 11:07	
Carbon tetrachloride	ug/L	<0.50	0.50	06/12/21 11:07	
Chlorobenzene	ug/L	<0.50	0.50	06/12/21 11:07	
Chlorodifluoromethane	ug/L	<0.50	0.50	06/12/21 11:07	N3
Chloroethane	ug/L	<0.50	0.50	06/12/21 11:07	
Chloroform	ug/L	<0.50	0.50	06/12/21 11:07	
Chloromethane	ug/L	<0.50	0.50	06/12/21 11:07	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	06/12/21 11:07	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	06/12/21 11:07	
Dibromochloromethane	ug/L	<0.50	0.50	06/12/21 11:07	
Dibromomethane	ug/L	<0.50	0.50	06/12/21 11:07	
Dichlorodifluoromethane	ug/L	<0.50	0.50	06/12/21 11:07	v3
Ethylbenzene	ug/L	<0.50	0.50	06/12/21 11:07	

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.

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QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE/PFAS 6/7

Pace Project No.: 70175851

METHOD BLANK: 1070778

Matrix: Water

Associated Lab Samples: 70175851001, 70175851003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	06/12/21 11:07	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	06/12/21 11:07	
m&p-Xylene	ug/L	<0.50	0.50	06/12/21 11:07	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	06/12/21 11:07	
Methylene Chloride	ug/L	<0.50	0.50	06/12/21 11:07	
n-Butylbenzene	ug/L	<0.50	0.50	06/12/21 11:07	
n-Propylbenzene	ug/L	<0.50	0.50	06/12/21 11:07	
o-Xylene	ug/L	<0.50	0.50	06/12/21 11:07	
p-Isopropyltoluene	ug/L	<0.50	0.50	06/12/21 11:07	
sec-Butylbenzene	ug/L	<0.50	0.50	06/12/21 11:07	
Styrene	ug/L	<0.50	0.50	06/12/21 11:07	
tert-Butylbenzene	ug/L	<0.50	0.50	06/12/21 11:07	
Tetrachloroethene	ug/L	<0.50	0.50	06/12/21 11:07	
Toluene	ug/L	<0.50	0.50	06/12/21 11:07	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	06/12/21 11:07	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	06/12/21 11:07	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	06/12/21 11:07	
Trichloroethene	ug/L	<0.50	0.50	06/12/21 11:07	
Trichlorofluoromethane	ug/L	<0.50	0.50	06/12/21 11:07	
Vinyl chloride	ug/L	<0.50	0.50	06/12/21 11:07	
1,2-Dichlorobenzene-d4 (S)	%	88	70-130	06/12/21 11:07	
4-Bromofluorobenzene (S)	%	98	70-130	06/12/21 11:07	

LABORATORY CONTROL SAMPLE: 1070779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.2	92	70-130	
1,1,1-Trichloroethane	ug/L	10	8.5	85	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	9.5	95	70-130	
1,1,2-Trichloroethane	ug/L	10	9.6	96	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	10.6	106	70-130	N3
1,1-Dichloroethane	ug/L	10	9.7	97	70-130	
1,1-Dichloroethene	ug/L	10	9.0	90	70-130	
1,1-Dichloropropene	ug/L	10	9.4	94	70-130	
1,2,3-Trichlorobenzene	ug/L	10	8.8	88	70-130	
1,2,3-Trichloropropane	ug/L	10	10.4	104	70-130	
1,2,4-Trichlorobenzene	ug/L	10	8.9	89	70-130	
1,2,4-Trimethylbenzene	ug/L	10	9.9	99	70-130	
1,2-Dichlorobenzene	ug/L	10	9.6	96	70-130	
1,2-Dichloroethane	ug/L	10	9.3	93	70-130	
1,2-Dichloropropane	ug/L	10	9.0	90	70-130	
1,3,5-Trimethylbenzene	ug/L	10	9.2	92	70-130	
1,3-Dichlorobenzene	ug/L	10	9.5	95	70-130	
1,3-Dichloropropane	ug/L	10	9.7	97	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE/PFAS 6/7
Pace Project No.: 70175851

LABORATORY CONTROL SAMPLE: 1070779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	9.8	98	70-130	
2,2-Dichloropropane	ug/L	10	8.4	84	70-130	
2-Chlorotoluene	ug/L	10	9.7	97	70-130	
4-Chlorotoluene	ug/L	10	10.1	101	70-130	
Benzene	ug/L	10	9.4	94	70-130	
Bromobenzene	ug/L	10	9.1	91	70-130	
Bromochloromethane	ug/L	10	8.4	84	70-130	
Bromodichloromethane	ug/L	10	8.6	86	70-130	
Bromoform	ug/L	10	8.5	85	70-130	
Bromomethane	ug/L	10	8.4	84	70-130	
Carbon tetrachloride	ug/L	10	8.2	82	70-130	
Chlorobenzene	ug/L	10	9.6	96	70-130	
Chlorodifluoromethane	ug/L	10	9.4	94	70-130	N3
Chloroethane	ug/L	10	9.4	94	70-130	
Chloroform	ug/L	10	8.8	88	70-130	
Chloromethane	ug/L	10	7.2	72	70-130	
cis-1,2-Dichloroethene	ug/L	10	9.0	90	70-130	
cis-1,3-Dichloropropene	ug/L	10	9.2	92	70-130	
Dibromochloromethane	ug/L	10	8.3	83	70-130	
Dibromomethane	ug/L	10	9.7	97	70-130	
Dichlorodifluoromethane	ug/L	10	6.8	68	70-130	L2,v3
Ethylbenzene	ug/L	10	9.6	96	70-130	
Hexachloro-1,3-butadiene	ug/L	10	9.6	96	70-130	
Isopropylbenzene (Cumene)	ug/L	10	9.1	91	70-130	
m&p-Xylene	ug/L	20	19.5	98	70-130	
Methyl-tert-butyl ether	ug/L	10	13.3	133	70-130	IH,L1
Methylene Chloride	ug/L	10	9.3	93	70-130	
n-Butylbenzene	ug/L	10	9.7	97	70-130	
n-Propylbenzene	ug/L	10	10.2	102	70-130	
o-Xylene	ug/L	10	9.5	95	70-130	
p-Isopropyltoluene	ug/L	10	9.7	97	70-130	
sec-Butylbenzene	ug/L	10	9.4	94	70-130	
Styrene	ug/L	10	9.5	95	70-130	
tert-Butylbenzene	ug/L	10	9.2	92	70-130	
Tetrachloroethene	ug/L	10	8.6	86	70-130	
Toluene	ug/L	10	9.9	99	70-130	
Total Trihalomethanes (Calc.)	ug/L		34.3			
trans-1,2-Dichloroethene	ug/L	10	8.6	86	70-130	
trans-1,3-Dichloropropene	ug/L	10	9.7	97	70-130	
Trichloroethene	ug/L	10	8.4	84	70-130	
Trichlorofluoromethane	ug/L	10	9.2	92	70-130	
Vinyl chloride	ug/L	10	8.7	87	70-130	
1,2-Dichlorobenzene-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	

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QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE/PFAS 6/7

Pace Project No.: 70175851

SAMPLE DUPLICATE: 1071505

Parameter	Units	70175960002 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	<0.50	<0.50		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	0.55	0.56	2	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	0.85	0.82	3	20	v3
Ethylbenzene	ug/L	<0.50	<0.50		20	
Hexachloro-1,3-butadiene	ug/L	<0.50	<0.50		20	
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50		20	
m&p-Xylene	ug/L	<0.50	<0.50		20	
Methyl-tert-butyl ether	ug/L	<0.50	<0.50		20	
Methylene Chloride	ug/L	<0.50	<0.50		20	
n-Butylbenzene	ug/L	<0.50	<0.50		20	
n-Propylbenzene	ug/L	<0.50	<0.50		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE/PFAS 6/7

Pace Project No.: 70175851

SAMPLE DUPLICATE: 1071505

Parameter	Units	70175960002 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	35.6	31.5	12	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	<0.50	<0.50		20	
Trichlorofluoromethane	ug/L	<0.50	<0.50		20	
Vinyl chloride	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene-d4 (S)	%	92	89		20	
4-Bromofluorobenzene (S)	%	92	82		20	

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QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE/PFAS 6/7

Pace Project No.: 70175851

QC Batch:	212452	Analysis Method:	EPA 522
QC Batch Method:	EPA 522	Analysis Description:	522 MSS 1,4 Dioxane
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70175851001, 70175851002, 70175851003

METHOD BLANK: 1065173 Matrix: Drinking Water

Associated Lab Samples: 70175851001, 70175851002, 70175851003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	06/09/21 15:13	
1,4-Dioxane-d8 (S)	%	81	70-130	06/09/21 15:13	

LABORATORY CONTROL SAMPLE: 1065174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.7	86	70-130	
1,4-Dioxane-d8 (S)	%			92	70-130	

MATRIX SPIKE SAMPLE: 1065175

Parameter	Units	70175890001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	2	1.7	86	70-130	
1,4-Dioxane-d8 (S)	%				91	70-130	

SAMPLE DUPLICATE: 1065176

Parameter	Units	70175909013 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	99	88		20	

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QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE/PFAS 6/7
Pace Project No.: 70175851

QC Batch: 739350 Analysis Method: EPA 537.1
QC Batch Method: EPA 537.1 Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70175851001, 70175851002, 70175851003

METHOD BLANK: 4034485 Matrix: Water
Associated Lab Samples: 70175851001, 70175851002, 70175851003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	06/23/21 06:52	
Perfluoroheptanoic acid	ng/L	ND	2.0	06/23/21 06:52	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	06/23/21 06:52	
Perfluorononanoic acid	ng/L	ND	2.0	06/23/21 06:52	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	06/23/21 06:52	
Perfluorooctanoic acid	ng/L	ND	2.0	06/23/21 06:52	
13C2-PFDA (S)	%	103	70-130	06/23/21 06:52	
13C2-PFHxA (S)	%	98	70-130	06/23/21 06:52	
HFPO-DAS (S)	%	85	70-130	06/23/21 06:52	
NETFOSAA-d5 (S)	%	110	70-130	06/23/21 06:52	

LABORATORY CONTROL SAMPLE & LCSD: 4034486 4034487

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	7.2	7.1	102	101	70-130	1	30	
Perfluoroheptanoic acid	ng/L	8	9.1	8.1	114	102	70-130	12	30	
Perfluorohexanesulfonic acid	ng/L	7.3	7.1	8.0	97	110	70-130	12	30	
Perfluorononanoic acid	ng/L	8	8.1	7.7	101	96	70-130	5	30	
Perfluorooctanesulfonic acid	ng/L	7.4	7.2	7.6	97	102	70-130	5	30	
Perfluorooctanoic acid	ng/L	8	8.8	8.3	110	104	70-130	6	30	
13C2-PFDA (S)	%				110	112	70-130			
13C2-PFHxA (S)	%				110	110	70-130			
HFPO-DAS (S)	%				97	101	70-130			
NETFOSAA-d5 (S)	%				120	119	70-130			

LABORATORY CONTROL SAMPLE: 4034488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.8J	104	50-150	
Perfluoroheptanoic acid	ng/L	2	2.2	112	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.8J	96	50-150	
Perfluorononanoic acid	ng/L	2	ND	96	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.7J	93	50-150	
Perfluorooctanoic acid	ng/L	2	2.4	118	50-150	
13C2-PFDA (S)	%			109	70-130	
13C2-PFHxA (S)	%			108	70-130	
HFPO-DAS (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: POC/1,4 DIOXANE/PFAS 6/7

Pace Project No.: 70175851

LABORATORY CONTROL SAMPLE: 4034488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			125	70-130	

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QUALIFIERS

Project: POC/1,4 DIOXANE/PFAS 6/7

Pace Project No.: 70175851

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.

WORKORDER QUALIFIERS

WO: 70175851

- [1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

SAMPLE QUALIFIERS

Sample: 70175851001

- [1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

ANALYTE QUALIFIERS

- IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
- v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: POC/1,4 DIOXANE/PFAS 6/7

Pace Project No.: 70175851

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70175851001	AS-8/9/11	EPA 522	212452	EPA 522	212524
70175851002	N-07552	EPA 522	212452	EPA 522	212524
70175851003	N-05876	EPA 522	212452	EPA 522	212524
70175851001	AS-8/9/11	EPA 524.2	213210		
70175851003	N-05876	EPA 524.2	213210		
70175851001	AS-8/9/11	EPA 537.1	739350	EPA 537.1	739818
70175851002	N-07552	EPA 537.1	739350	EPA 537.1	739818
70175851003	N-05876	EPA 537.1	739350	EPA 537.1	739818

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 70175851

Client Name: Port Washington

Project: **PM: JSA** Due Date: **06/16/21**
CLIENT: PWW

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

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

Temperature Blank Present: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: TH091 Correction Factor: +0.0

Samples on ice, cooling process has begun

Cooler Temperature(°C): 9.3 Cooler Temperature Corrected(°C): 9.3

Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil { N/A, water sample }

Date and Initials of person examining contents: MSG/7/21

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

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

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

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

Client Notification/ Resolution: _____

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____