October 1, 2021

Jericho Water District
PWS ID No. NY2902831
MCL Deferral for 1,4-dioxane
Quarterly Report – Third Quarter 2021

Introduction

On behalf of the Jericho Water District (JWD 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. JWD was granted a deferral because it has been proactive in its efforts to establish and implement an action plan for managing the above-referenced compounds.

The enclosed is a report describing JWD'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

Wells 9 and 14

The Basis of Design Report (BODR) for this project is still under review by the NCDH but the general scope of the project has been endorsed by the NYSDOH. Detailed plans and specifications for this project were submitted to the Nassau County Department of Health (NCDH) and NYSDOH in the third quarter of 2021. While the documents are under regulatory review, the District will prepare for the public bidding process. The new treatment facility is still expected to be operational by the end of 2022.

Although it has been granted a deferral, JWD has been able to minimize the usage of these wells during the period of this report.

Wells 20 and 21

The District has completed the field activities associated with piloting for the Wells 20 and 21 project and is awaiting sample results from the laboratory.

Although the pilot testing and BODR were delayed due to Well 20 being out of service for the installation of treatment equipment to remove simazine, the detailed design of the facility has commenced and the construction of the AOP facility is still expected to be completed by the end of 2023 in accordance with the deferral schedule. The BODR is expected to be submitted by the end of the fourth quarter 2021.

Even though it has been granted a deferral, the JWD continues to monitor and minimize the usage of these wells to the greatest extent practicable while meeting system demands. JWD will continue to monitor the 1,4-dioxane concentrations and work to minimize future run times of the wells where the concentration exceeds the MCL.

Well 22

Piloting of Well 22 was completed in the second quarter of 2021. Due to delays associated with laboratory analysis the Pilot Study Report completion was also delayed. The Pilot Study Report and the BODR is expected to be submitted to the NCDH and NYSDOH by the end of the fourth quarter of 2021.

In addition, the detailed design of the facility has commenced and coordination with the New York State Department of Transportation (NYSDOT) has been ongoing to coordinate site drainage capacity. The construction of the AOP facility is still expected to start in the third quarter of 2022 and be completed by the end of 2023 in accordance with the deferral schedule.

Although it has been granted a deferral, JWD continues to monitor and minimize the usage of this well to the greatest extent practicable while meeting system demands. JWD will continue to monitor the 1,4-dioxane concentrations and work to minimize future run times of the wells where the concentration exceeds the MCL.

Wells 25 and 26 (Kirby Lane Facility)

This project is currently in the design phase. In September of 2021, the NCDH recommended that the NYSDOH issue full approval of the BODR for this project. In addition, the detailed design was completed and documents were submitted to the NCDH and NYSDOH for regulatory review in the third quarter of 2021. While the documents are under review, the District will prepare for the public bidding process. The District is still expected to have the full treatment plant operational in the first quarter of 2023.

Although it has been granted a deferral, JWD continues to monitor and minimize the usage of these wells to the greatest extent practicable while meeting system demands. JWD will continue to monitor the 1,4-dioxane concentrations and work to minimize future run times of the wells where the concentration exceeds the MCL.

Public Notification

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

Analytical Sampling

Sample results for the wells for which deferrals were granted (Wells 9, 14, 20, 21, 22, 25, and 26) taken during the third quarter of 2021 are contained in the below tables. Full laboratory reports for each sample are contained in **Attachment B**.

1,4-dioxane (ppb)

Well	Date		
	July 2021	**Aug. 2021**	**Sept. 2021**
Well 9 (N-4245)	1.8	2.0	1.8
Well 14 (N-6651)	2.8	3.2	3.3
Well 20 (N-10149)	1.3 / 0.96	1.0	1.1
Well 21 (N-12795)	0.44	0.44	0.47
Well 22 (N-7781)	0.53	0.54	0.55
Well 25 (N-8355)	8.4	8.9	8.7
Well 26 (N-13119)	2.3	2.7	3.0

Conclusion

As demonstrated above, JWD 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 516-921-8280 or visit the website, www.jerichowater.org

Very truly yours,

Board of Commissioners
Jericho Water District

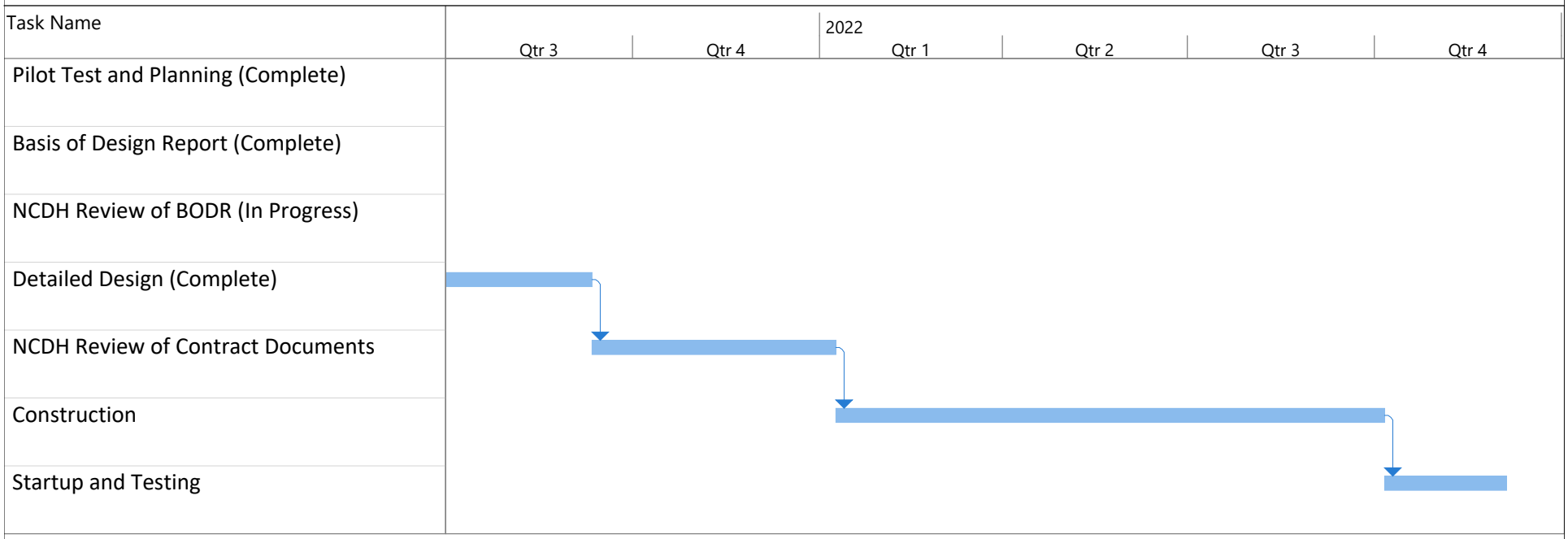
Enclosures
cc: K. Wheeler (NYSDOH)
B. Rogers (NYSDOH)
W. Provoncha (NCDH)
P. Young (NCDH)
R. Putnam (NCDH)
P. Logan (JWD)
B. Merklin (D&B)
P. Connell (D&B)

ATTACHMENT A

Project Schedules Associated with MCL Deferral

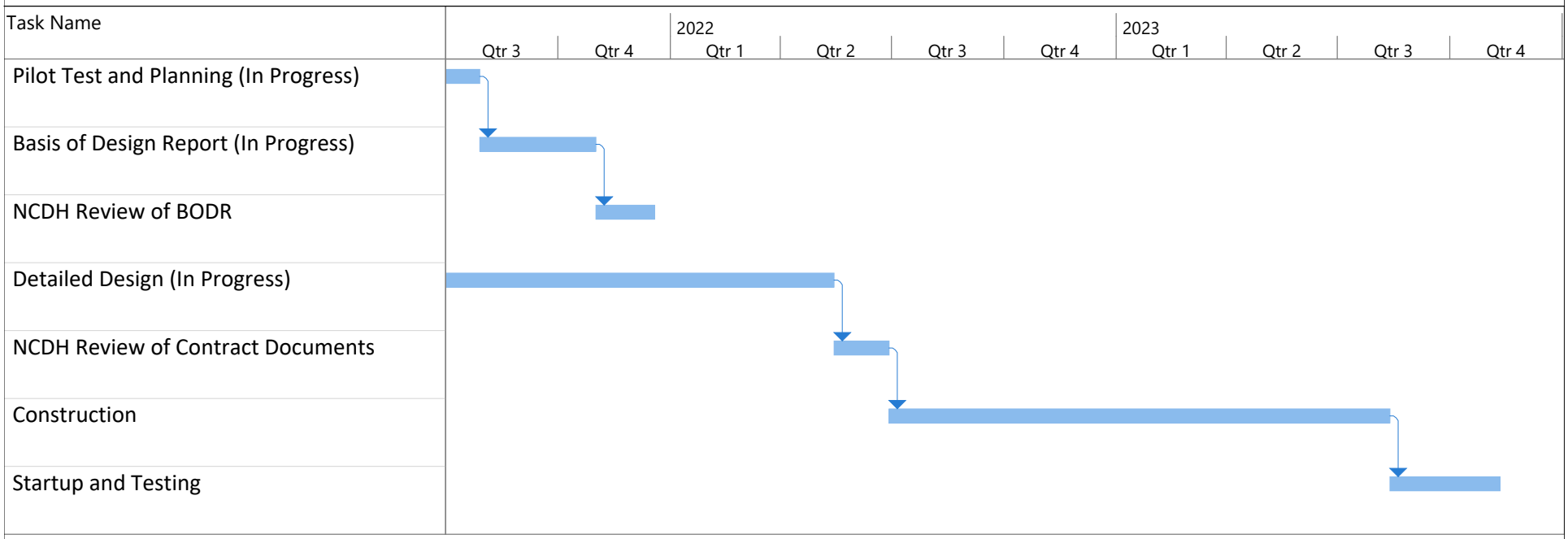
Jericho Water District
MCL Deferral Request
Quarterly Report

Wells 9 and 14
AOP Project Schedule



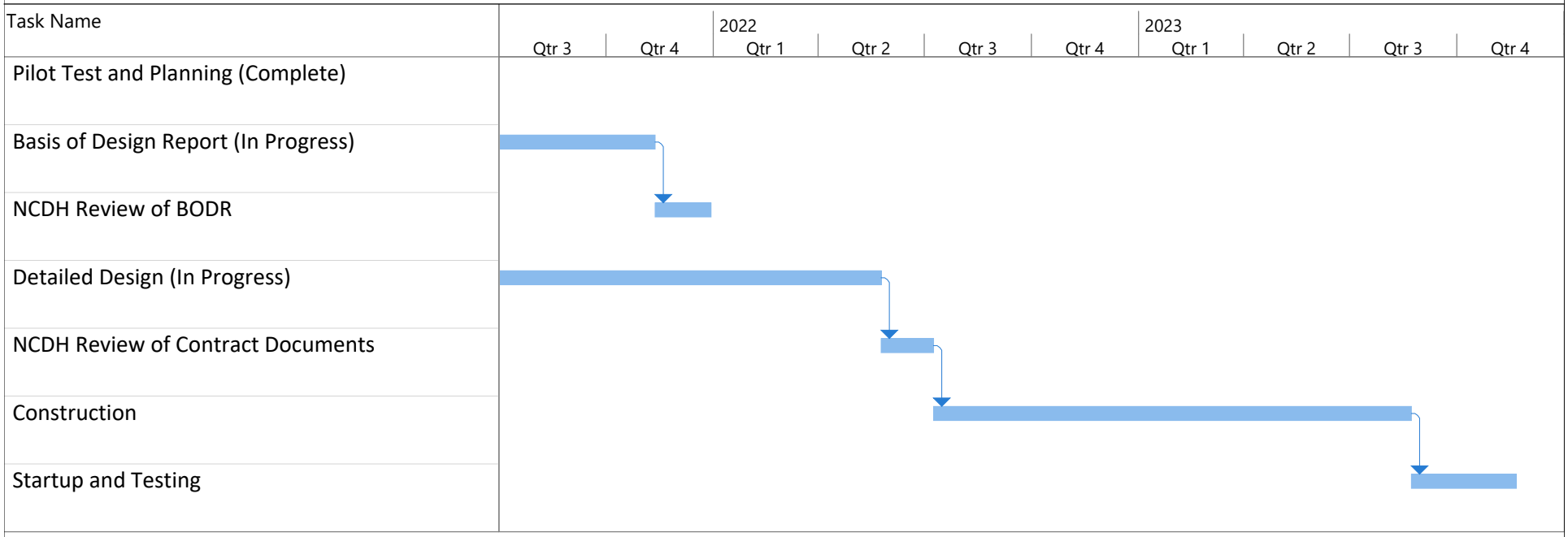
Jericho Water District
MCL Deferral Request
Quarterly Report

Wells 20 and 21
AOP Project Schedule



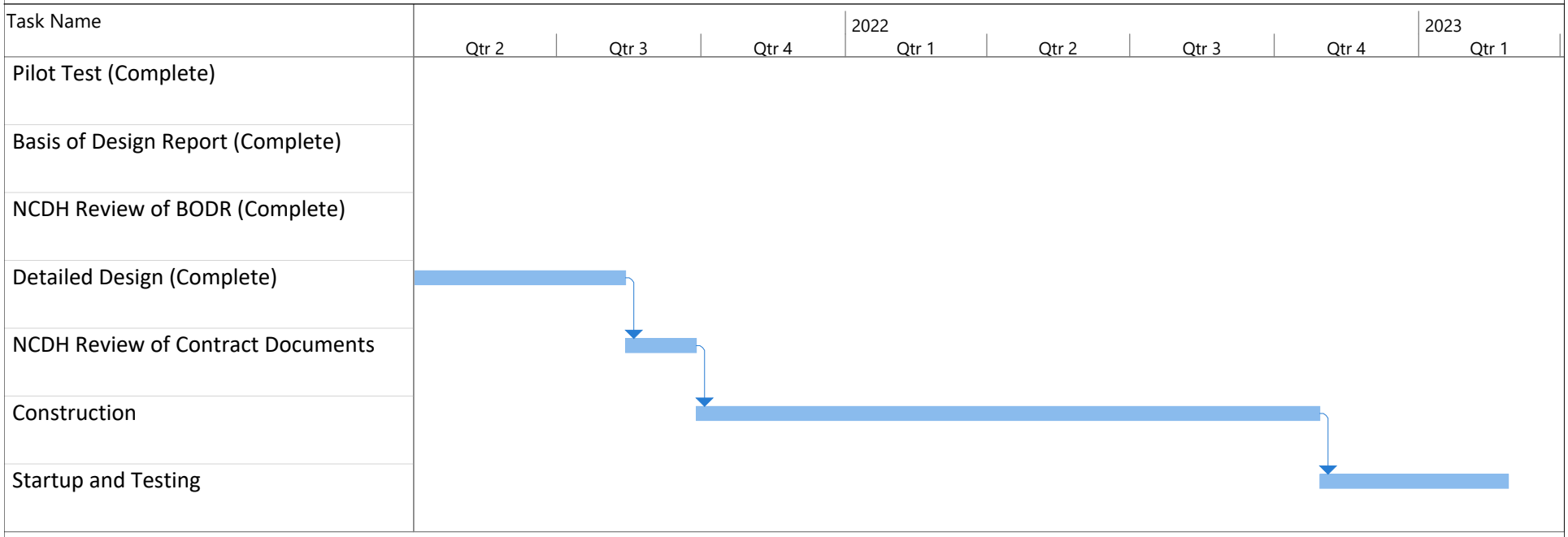
Jericho Water District
MCL Deferral Request
Quarterly Report

Well 22
AOP Project Schedule



Jericho Water District
MCL Deferral Request
Quarterly Report

Wells 25 and 26
AOP Project Schedule



ATTACHMENT B

Water Quality Data

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

July 16, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179333

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 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
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

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

CERTIFICATIONS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179333

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

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

SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179333

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70179333001	**N-04245**	Drinking Water	07/06/21 10:45	07/06/21 12:49

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

SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179333

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70179333001	**N-04245**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O

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

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179333

Sample: N-04245 **Lab ID: 70179333001** Collected: 07/06/21 10:45 Received: 07/06/21 12:49 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)	**1.8**	ug/L	0.020		1	07/12/21 12:02	07/13/21 01:02	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		1	07/12/21 12:02	07/13/21 01:02		
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	07/12/21 12:35	07/15/21 01:56	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	07/12/21 12:35	07/15/21 01:56	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	07/12/21 12:35	07/15/21 01:56	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	07/12/21 12:35	07/15/21 01:56	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	07/12/21 12:35	07/15/21 01:56	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	07/12/21 12:35	07/15/21 01:56	335-67-1	
Surrogates									
13C2-PFDA (S)	93	%	70-130		1	07/12/21 12:35	07/15/21 01:56		
13C2-PFHxA (S)	88	%	70-130		1	07/12/21 12:35	07/15/21 01:56		
NEtFOSAA-d5 (S)	112	%	70-130		1	07/12/21 12:35	07/15/21 01:56		
HFPO-DAS (S)	84	%	70-130		1	07/12/21 12:35	07/15/21 01:56		

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

QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179333

QC Batch: 217207
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70179333001

METHOD BLANK: 1094708
Matrix: Drinking Water
Associated Lab Samples: 70179333001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	07/12/21 22:45	
1,4-Dioxane-d8 (S)	%	97	70-130	07/12/21 22:45	

LABORATORY CONTROL SAMPLE: 1094709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	<0.020	84	70-130	
1,4-Dioxane-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1094710

Parameter	Units	70179319002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	1.9	0.02	1.9	168	70-130	M1
1,4-Dioxane-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1094711

Parameter	Units	70179319003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	98	95		20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179333

QC Batch: 744488
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70179333001

METHOD BLANK: 4063136
Matrix: Water
Associated Lab Samples: 70179333001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	07/14/21 23:42	
Perfluoroheptanoic acid	ng/L	ND	2.0	07/14/21 23:42	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	07/14/21 23:42	
Perfluorononanoic acid	ng/L	ND	2.0	07/14/21 23:42	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	07/14/21 23:42	
Perfluorooctanoic acid	ng/L	ND	2.0	07/14/21 23:42	
13C2-PFDA (S)	%	89	70-130	07/14/21 23:42	
13C2-PFHxA (S)	%	81	70-130	07/14/21 23:42	
HFPO-DAS (S)	%	72	70-130	07/14/21 23:42	
NEtFOSAA-d5 (S)	%	105	70-130	07/14/21 23:42	

LABORATORY CONTROL SAMPLE: 4063137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	8	6.1	76	70-130	
Perfluoroheptanoic acid	ng/L	8	7.4	92	70-130	
Perfluorohexanesulfonic acid	ng/L	8	5.8	73	70-130	
Perfluorononanoic acid	ng/L	8	7.1	89	70-130	
Perfluorooctanesulfonic acid	ng/L	8	6.1	76	70-130	
Perfluorooctanoic acid	ng/L	8	6.6	83	70-130	
13C2-PFDA (S)	%			94	70-130	
13C2-PFHxA (S)	%			90	70-130	
HFPO-DAS (S)	%			94	70-130	
NEtFOSAA-d5 (S)	%			111	70-130	

LABORATORY CONTROL SAMPLE: 4063138

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	1.7J	86	50-150	
Perfluoroheptanoic acid	ng/L	2	ND	98	50-150	
Perfluorohexanesulfonic acid	ng/L	2	1.4J	68	50-150	
Perfluorononanoic acid	ng/L	2	ND	90	50-150	
Perfluorooctanesulfonic acid	ng/L	2	1.4J	70	50-150	
Perfluorooctanoic acid	ng/L	2	1.8J	88	50-150	
13C2-PFDA (S)	%			96	70-130	
13C2-PFHxA (S)	%			90	70-130	
HFPO-DAS (S)	%			90	70-130	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179333

LABORATORY CONTROL SAMPLE: 4063138

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

MATRIX SPIKE SAMPLE: 4063139

Parameter	Units	70179338004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	7.2	5.7	76	70-130	
Perfluoroheptanoic acid	ng/L	20.6	7.2	27.5	96	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.8	7.2	6.3	70	70-130	
Perfluorononanoic acid	ng/L	<1.8	7.2	8.3	91	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.8	7.2	5.6	76	70-130	
Perfluorooctanoic acid	ng/L	6.7	7.2	12.4	79	70-130	
13C2-PFDA (S)	%				91	70-130	
13C2-PFHxA (S)	%				86	70-130	
HFPO-DAS (S)	%				86	70-130	
NEtFOSAA-d5 (S)	%				106	70-130	

SAMPLE DUPLICATE: 4063140

Parameter	Units	70179333001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.0	<1.9		30	
Perfluoroheptanoic acid	ng/L	<2.0	<1.9		30	
Perfluorohexanesulfonic acid	ng/L	<2.0	<1.9		30	
Perfluorononanoic acid	ng/L	<2.0	<1.9		30	
Perfluorooctanesulfonic acid	ng/L	<2.0	<1.9		30	
Perfluorooctanoic acid	ng/L	<2.0	<1.9		30	
13C2-PFDA (S)	%	93	93			
13C2-PFHxA (S)	%	88	89			
HFPO-DAS (S)	%	84	85			
NEtFOSAA-d5 (S)	%	112	119			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179333

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: 70179333

[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: 70179333001

[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

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179333

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179333001	**N-04245**	EPA 522	217207	EPA 522	217307
70179333001	**N-04245**	EPA 537.1	744488	EPA 537.1	745194

WO#: 70179333

70179333

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 7/6/21

Collected By: CS

Accepted By: [signature] 12:44

Cooler Temp: 17.3 °C (B)

☐ WELL OFF LINE _____

☑ WELL RUN TO SYSTEM _____

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water

Address: 125 Convent Rd
Syosset, NY 11791

Phone #: (516) 921-8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
7/6/21 10:45am	PW	Well 9 H-04245	RW		RO			1,4 Dioxane	

Remarks:

Pace Analytical®
www.pacelabs.com
575 Broad Hollow Rd., Melville, NY 11747
(631) 694-3040 Fax: (631) 420-8436

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 7/6/21
Collected By: CS
Accepted By: [signature] 1:49
Cooler Temp: 1.3 °C (13)

☐ WELL OFF LINE
☑ WELL RUN TO SYSTEM
☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:
Name or Code: Jericho Water
Address: 125 Convent Rd
Syosset, NY 11791
Phone #: (516)921-8280
Attn:
Proj. # or (Name):
Bill To:
Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
7/6/21 10:45am	PW	well 9 M-04245	RW		RO			PFOS/PFOA	

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70179333
PM: JSA Due Date: 07/16/21
CLIENT: JWD

Client Name: Jericho WD

Proje

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): 17.3 Cooler Temperature Corrected(°C): 17.3

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: KO 7/6/21

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix: SL WT OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	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:	☐ Yes	☐ No	☑ 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?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

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

July 22, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: 1,4 DIOXANE/PFAS 7/12
Pace Project No.: 70180042

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on July 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
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

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

CERTIFICATIONS

Project: 1,4 DIOXANE/PFAS 7/12
Pace Project No.: 70180042

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

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

SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 7/12
Pace Project No.: 70180042

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70180042001	**N-06651**	Drinking Water	07/12/21 09:55	07/12/21 12:44

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

SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 7/12
Pace Project No.: 70180042

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70180042001	**N-06651**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O

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

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/12
Pace Project No.: 70180042

Sample: N-06651 **Lab ID: 70180042001** Collected: 07/12/21 09:55 Received: 07/12/21 12:44 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)	**2.8**	ug/L	0.020		1	07/16/21 08:43	07/16/21 17:19	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	07/16/21 08:43	07/16/21 17:19		
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	07/20/21 12:05	07/22/21 05:45	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	07/20/21 12:05	07/22/21 05:45	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/20/21 12:05	07/22/21 05:45	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/20/21 12:05	07/22/21 05:45	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/20/21 12:05	07/22/21 05:45	1763-23-1	
Perfluorooctanoic acid	**2.3**	ng/L	1.9	10	1	07/20/21 12:05	07/22/21 05:45	335-67-1	
Surrogates									
13C2-PFDA (S)	107	%	70-130		1	07/20/21 12:05	07/22/21 05:45		
13C2-PFHxA (S)	103	%	70-130		1	07/20/21 12:05	07/22/21 05:45		
HFPO-DAS (S)	97	%	70-130		1	07/20/21 12:05	07/22/21 05:45		

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

QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/12
Pace Project No.: 70180042

QC Batch: 217975
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70180042001

METHOD BLANK: 1098796
Matrix: Drinking Water
Associated Lab Samples: 70180042001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	07/16/21 12:51	
1,4-Dioxane-d8 (S)	%	99	70-130	07/16/21 12:51	

LABORATORY CONTROL SAMPLE: 1098797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	<0.020	82	70-130	
1,4-Dioxane-d8 (S)	%			94	70-130	

MATRIX SPIKE SAMPLE: 1098798

Parameter	Units	70179787003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.02	0.035	89	70-130	
1,4-Dioxane-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1098799

Parameter	Units	70179787004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	96	98		20	

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.

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

QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/12
Pace Project No.: 70180042

QC Batch: 746787
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70180042001

METHOD BLANK: 4077002
Matrix: Water
Associated Lab Samples: 70180042001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	07/21/21 23:23	
Perfluoroheptanoic acid	ng/L	ND	2.0	07/21/21 23:23	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	07/21/21 23:23	
Perfluorononanoic acid	ng/L	ND	2.0	07/21/21 23:23	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	07/21/21 23:23	
Perfluorooctanoic acid	ng/L	ND	2.0	07/21/21 23:23	
13C2-PFDA (S)	%	95	70-130	07/21/21 23:23	
13C2-PFHxA (S)	%	91	70-130	07/21/21 23:23	
HFPO-DAS (S)	%	85	70-130	07/21/21 23:23	
NEtFOSAA-d5 (S)	%	100	70-130	07/21/21 23:23	

LABORATORY CONTROL SAMPLE: 4077003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	160	128	80	70-130	
Perfluoroheptanoic acid	ng/L	160	149	93	70-130	
Perfluorohexanesulfonic acid	ng/L	160	128	80	70-130	
Perfluorononanoic acid	ng/L	160	141	88	70-130	
Perfluorooctanesulfonic acid	ng/L	160	133	83	70-130	
Perfluorooctanoic acid	ng/L	160	146	91	70-130	
13C2-PFDA (S)	%			96	70-130	
13C2-PFHxA (S)	%			93	70-130	
HFPO-DAS (S)	%			88	70-130	
NEtFOSAA-d5 (S)	%			95	70-130	

LABORATORY CONTROL SAMPLE: 4077004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	1.6J	82	50-150	
Perfluoroheptanoic acid	ng/L	2	2.0	100	50-150	
Perfluorohexanesulfonic acid	ng/L	2	1.6J	82	50-150	
Perfluorononanoic acid	ng/L	2	ND	94	50-150	
Perfluorooctanesulfonic acid	ng/L	2	1.6J	80	50-150	
Perfluorooctanoic acid	ng/L	2	ND	98	50-150	
13C2-PFDA (S)	%			96	70-130	
13C2-PFHxA (S)	%			92	70-130	
HFPO-DAS (S)	%			83	70-130	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/12
Pace Project No.: 70180042

LABORATORY CONTROL SAMPLE: 4077004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 4077005

Parameter	Units	70180127002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	151	122	81	70-130	
Perfluoroheptanoic acid	ng/L	<1.9	151	135	89	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	151	121	80	70-130	
Perfluorononanoic acid	ng/L	<1.9	151	132	88	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.9	151	129	85	70-130	
Perfluorooctanoic acid	ng/L	<1.9	151	138	91	70-130	
13C2-PFDA (S)	%				90	70-130	
13C2-PFHxA (S)	%				87	70-130	
HFPO-DAS (S)	%				90	70-130	
NEtFOSAA-d5 (S)	%				92	70-130	

SAMPLE DUPLICATE: 4077006

Parameter	Units	70180127001 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	2.1	1.9	7	30	
Perfluorononanoic acid	ng/L	<1.8	<1.9		30	
Perfluorooctanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluorooctanoic acid	ng/L	3.3	3.1	5	30	
13C2-PFDA (S)	%	89	89			
13C2-PFHxA (S)	%	91	87			
HFPO-DAS (S)	%	85	83			
NEtFOSAA-d5 (S)	%	94	93			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 1,4 DIOXANE/PFAS 7/12
Pace Project No.: 70180042

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: 70180042

[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: 70180042001

[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.

[2] RUN TO WASTE

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS 7/12
Pace Project No.: 70180042

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70180042001	**N-06651**	EPA 522	217975	EPA 522	218043
70180042001	**N-06651**	EPA 537.1	746787	EPA 537.1	747236

WO#: 70180042

70180042

'47

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 7/12/21 (B)

Collected By: CS

Accepted By: [signature] 7/12/21

Cooler Temp: 12.0 °C 12:44

☑ WELL OFF LINE Ran to waste

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water

Address: 125 Convent Rd
Syosset, NY 11791

Phone #: (516) 921-8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
7/12/21 9:55Am	PW	Well 14 N-06651	RW		RO			1,4 Dioxane	
7/12/21 9:55Am	PW	Well 14 H-06651	RW		RO			PFOS/PFOA	

Remarks:

Pace Analytical®

Sample Condition Upon Recei

WO#: 70180042
PM: JSA Due Date: 07/22/21
CLIENT: JWD

Client Name: Jericho WD

Projec

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): 12.0 Cooler Temperature Corrected(°C): 12.0

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: KD 7/22/21

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix: SL (WT) OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked? pH paper Lot #	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐ Yes	☐ No	☑ N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐ Yes	☐ No	☑ N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot #	☐ Yes	☐ No	☑ N/A	15.
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

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

July 19, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 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
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

Pace Analytical Services, LLC
575 Broad Hollow Road
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CERTIFICATIONS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

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

Pace Analytical Services, LLC
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Melville, NY 11747
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SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70179338001	**N-00198**	Drinking Water	07/06/21 08:42	07/06/21 12:49
70179338002	**N-12734**	Drinking Water	07/06/21 08:53	07/06/21 12:49
70179338003	**N-07772**	Drinking Water	07/06/21 11:49	07/06/21 12:49
70179338004	**N-07773**	Drinking Water	07/06/21 12:05	07/06/21 12:49
70179338005	**N-10149**	Drinking Water	07/06/21 11:11	07/06/21 12:49
70179338006	**N-12795**	Drinking Water	07/06/21 11:30	07/06/21 12:49
70179338007	**N-07593**	Drinking Water	07/06/21 10:55	07/06/21 12:49
70179338008	**N-08043**	Drinking Water	07/06/21 09:37	07/06/21 12:49
70179338009	**N-06092**	Drinking Water	07/06/21 10:17	07/06/21 12:49
70179338010	**N-06093**	Drinking Water	07/06/21 09:57	07/06/21 12:49

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SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70179338001	**N-00198**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70179338002	**N-12734**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70179338003	**N-07772**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70179338004	**N-07773**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70179338005	**N-10149**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70179338006	**N-12795**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70179338007	**N-07593**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70179338008	**N-08043**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70179338009	**N-06092**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70179338010	**N-06093**	EPA 522	JMD	2	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: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Sample: N-00198 **Lab ID: 70179338001** Collected: 07/06/21 08:42 Received: 07/06/21 12:49 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)	**0.55**	ug/L	0.020		1	07/12/21 12:02	07/13/21 01:19	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	07/12/21 12:02	07/13/21 01:19		
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	07/12/21 12:35	07/14/21 03:41	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 03:41	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 03:41	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 03:41	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 03:41	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 03:41	335-67-1	
Surrogates									
13C2-PFDA (S)	100	%	70-130		1	07/12/21 12:35	07/14/21 03:41		
13C2-PFHxA (S)	92	%	70-130		1	07/12/21 12:35	07/14/21 03:41		
HFPO-DAS (S)	85	%	70-130		1	07/12/21 12:35	07/14/21 03:41		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Sample: N-12734 **Lab ID: 70179338002** Collected: 07/06/21 08:53 Received: 07/06/21 12:49 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)	**0.28**	ug/L	0.020		1	07/12/21 12:02	07/13/21 01:36	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	07/12/21 12:02	07/13/21 01:36		
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	07/12/21 12:35	07/14/21 04:00	375-73-5	
Perfluoroheptanoic acid	**4.1**	ng/L	2.0		1	07/12/21 12:35	07/14/21 04:00	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	07/12/21 12:35	07/14/21 04:00	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	07/12/21 12:35	07/14/21 04:00	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	07/12/21 12:35	07/14/21 04:00	1763-23-1	
Perfluorooctanoic acid	**2.6**	ng/L	2.0	10	1	07/12/21 12:35	07/14/21 04:00	335-67-1	
Surrogates									
13C2-PFDA (S)	95	%	70-130		1	07/12/21 12:35	07/14/21 04:00		
13C2-PFHxA (S)	90	%	70-130		1	07/12/21 12:35	07/14/21 04:00		
HFPO-DAS (S)	76	%	70-130		1	07/12/21 12:35	07/14/21 04:00		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Sample: N-07772 **Lab ID: 70179338003** Collected: 07/06/21 11:49 Received: 07/06/21 12:49 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)	**0.23**	ug/L	0.020		1	07/12/21 12:02	07/13/21 01:53	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		1	07/12/21 12:02	07/13/21 01:53		
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	07/12/21 12:35	07/14/21 06:14	375-73-5	
Perfluoroheptanoic acid	**16.6**	ng/L	1.9		1	07/12/21 12:35	07/14/21 06:14	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 06:14	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 06:14	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 06:14	1763-23-1	
Perfluorooctanoic acid	**5.3**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 06:14	335-67-1	
Surrogates									
13C2-PFDA (S)	94	%	70-130		1	07/12/21 12:35	07/14/21 06:14		
13C2-PFHxA (S)	89	%	70-130		1	07/12/21 12:35	07/14/21 06:14		
HFPO-DAS (S)	81	%	70-130		1	07/12/21 12:35	07/14/21 06:14		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Sample: N-07773 **Lab ID: 70179338004** Collected: 07/06/21 12:05 Received: 07/06/21 12:49 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)	**0.32**	ug/L	0.020		1	07/12/21 12:02	07/13/21 02:10	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		1	07/12/21 12:02	07/13/21 02:10		
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	07/12/21 12:35	07/15/21 00:58	375-73-5	
Perfluoroheptanoic acid	**20.6**	ng/L	1.8		1	07/12/21 12:35	07/15/21 00:58	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	07/12/21 12:35	07/15/21 00:58	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	07/12/21 12:35	07/15/21 00:58	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	07/12/21 12:35	07/15/21 00:58	1763-23-1	
Perfluorooctanoic acid	**6.7**	ng/L	1.8	10	1	07/12/21 12:35	07/15/21 00:58	335-67-1	
Surrogates									
13C2-PFDA (S)	95	%	70-130		1	07/12/21 12:35	07/15/21 00:58		
13C2-PFHxA (S)	88	%	70-130		1	07/12/21 12:35	07/15/21 00:58		
NEtFOSAA-d5 (S)	106	%	70-130		1	07/12/21 12:35	07/15/21 00:58		
HFPO-DAS (S)	87	%	70-130		1	07/12/21 12:35	07/15/21 00:58		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Sample: N-10149 **Lab ID: 70179338005** Collected: 07/06/21 11:11 Received: 07/06/21 12:49 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)	**1.3**	ug/L	0.020		1	07/12/21 12:02	07/13/21 02:27	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	07/12/21 12:02	07/13/21 02:27		
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	07/12/21 12:35	07/14/21 05:36	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 05:36	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 05:36	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 05:36	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 05:36	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 05:36	335-67-1	
Surrogates									
13C2-PFDA (S)	96	%	70-130		1	07/12/21 12:35	07/14/21 05:36		
13C2-PFHxA (S)	90	%	70-130		1	07/12/21 12:35	07/14/21 05:36		
HFPO-DAS (S)	83	%	70-130		1	07/12/21 12:35	07/14/21 05:36		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Sample: N-12795 **Lab ID: 70179338006** Collected: 07/06/21 11:30 Received: 07/06/21 12:49 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)	**0.44**	ug/L	0.020		1	07/12/21 12:02	07/13/21 02:44	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	07/12/21 12:02	07/13/21 02:44		
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	07/12/21 12:35	07/14/21 05:55	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 05:55	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 05:55	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 05:55	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 05:55	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 05:55	335-67-1	
Surrogates									
13C2-PFDA (S)	97	%	70-130		1	07/12/21 12:35	07/14/21 05:55		
13C2-PFHxA (S)	90	%	70-130		1	07/12/21 12:35	07/14/21 05:55		
HFPO-DAS (S)	80	%	70-130		1	07/12/21 12:35	07/14/21 05:55		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Sample: N-07593 **Lab ID: 70179338007** Collected: 07/06/21 10:55 Received: 07/06/21 12:49 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)	**0.14**	ug/L	0.020		1	07/12/21 12:02	07/13/21 03:01	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	07/12/21 12:02	07/13/21 03:01		
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	07/12/21 12:35	07/14/21 23:04	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 23:04	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 23:04	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 23:04	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 23:04	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 23:04	335-67-1	
Surrogates									
13C2-PFDA (S)	94	%	70-130		1	07/12/21 12:35	07/14/21 23:04		
13C2-PFHxA (S)	82	%	70-130		1	07/12/21 12:35	07/14/21 23:04		
HFPO-DAS (S)	75	%	70-130		1	07/12/21 12:35	07/14/21 23:04		

Pace Analytical Services, LLC
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Melville, NY 11747
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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Sample: N-08043 **Lab ID: 70179338008** Collected: 07/06/21 09:37 Received: 07/06/21 12:49 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)	**0.40**	ug/L	0.020		1	07/12/21 12:02	07/13/21 03:18	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	07/12/21 12:02	07/13/21 03:18		
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	07/12/21 12:35	07/14/21 04:19	375-73-5	
Perfluoroheptanoic acid	**2.0**	ng/L	1.9		1	07/12/21 12:35	07/14/21 04:19	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 04:19	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 04:19	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 04:19	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 04:19	335-67-1	
Surrogates									
13C2-PFDA (S)	97	%	70-130		1	07/12/21 12:35	07/14/21 04:19		
13C2-PFHxA (S)	88	%	70-130		1	07/12/21 12:35	07/14/21 04:19		
HFPO-DAS (S)	76	%	70-130		1	07/12/21 12:35	07/14/21 04:19		

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Sample: N-06092 **Lab ID: 70179338009** Collected: 07/06/21 10:17 Received: 07/06/21 12:49 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)	**0.065**	ug/L	0.020		1	07/12/21 12:02	07/13/21 03:52	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	07/12/21 12:02	07/13/21 03:52		
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	07/12/21 12:35	07/14/21 04:58	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 04:58	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 04:58	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 04:58	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 04:58	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 04:58	335-67-1	
Surrogates									
13C2-PFDA (S)	93	%	70-130		1	07/12/21 12:35	07/14/21 04:58		
13C2-PFHxA (S)	90	%	70-130		1	07/12/21 12:35	07/14/21 04:58		
HFPO-DAS (S)	74	%	70-130		1	07/12/21 12:35	07/14/21 04:58		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Sample: N-06093 **Lab ID: 70179338010** Collected: 07/06/21 09:57 Received: 07/06/21 12:49 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)	**0.12**	ug/L	0.020		1	07/12/21 12:02	07/13/21 04:09	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	07/12/21 12:02	07/13/21 04:09		
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	07/12/21 12:35	07/14/21 04:39	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 04:39	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 04:39	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/12/21 12:35	07/14/21 04:39	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 04:39	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	07/12/21 12:35	07/14/21 04:39	335-67-1	
Surrogates									
13C2-PFDA (S)	95	%	70-130		1	07/12/21 12:35	07/14/21 04:39		
13C2-PFHxA (S)	91	%	70-130		1	07/12/21 12:35	07/14/21 04:39		
HFPO-DAS (S)	77	%	70-130		1	07/12/21 12:35	07/14/21 04:39		

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

QC Batch: 217207
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70179338001, 70179338002, 70179338003, 70179338004, 70179338005, 70179338006, 70179338007, 70179338008, 70179338009, 70179338010

METHOD BLANK: 1094708
Matrix: Drinking Water
Associated Lab Samples: 70179338001, 70179338002, 70179338003, 70179338004, 70179338005, 70179338006, 70179338007, 70179338008, 70179338009, 70179338010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	07/12/21 22:45	
1,4-Dioxane-d8 (S)	%	97	70-130	07/12/21 22:45	

LABORATORY CONTROL SAMPLE: 1094709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	<0.020	84	70-130	
1,4-Dioxane-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1094710

Parameter	Units	70179319002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	1.9	0.02	1.9	168	70-130	M1
1,4-Dioxane-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1094711

Parameter	Units	70179319003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	98	95		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

QC Batch: 744486
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70179338001, 70179338002, 70179338003, 70179338005, 70179338006, 70179338007, 70179338008, 70179338009, 70179338010

METHOD BLANK: 4063131
Matrix: Water
Associated Lab Samples: 70179338001, 70179338002, 70179338003, 70179338005, 70179338006, 70179338007, 70179338008, 70179338009, 70179338010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	07/13/21 21:58	
Perfluoroheptanoic acid	ng/L	ND	2.0	07/13/21 21:58	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	07/13/21 21:58	
Perfluorononanoic acid	ng/L	ND	2.0	07/13/21 21:58	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	07/13/21 21:58	
Perfluorooctanoic acid	ng/L	ND	2.0	07/13/21 21:58	
13C2-PFDA (S)	%	87	70-130	07/13/21 21:58	
13C2-PFHxA (S)	%	86	70-130	07/13/21 21:58	
HFPO-DAS (S)	%	73	70-130	07/13/21 21:58	
NEtFOSAA-d5 (S)	%	112	70-130	07/13/21 21:58	

LABORATORY CONTROL SAMPLE: 4063132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	160	131	82	70-130	
Perfluoroheptanoic acid	ng/L	160	140	87	70-130	
Perfluorohexanesulfonic acid	ng/L	160	133	83	70-130	
Perfluorononanoic acid	ng/L	160	138	86	70-130	
Perfluorooctanesulfonic acid	ng/L	160	128	80	70-130	
Perfluorooctanoic acid	ng/L	160	143	90	70-130	
13C2-PFDA (S)	%			95	70-130	
13C2-PFHxA (S)	%			92	70-130	
HFPO-DAS (S)	%			89	70-130	
NEtFOSAA-d5 (S)	%			106	70-130	

LABORATORY CONTROL SAMPLE: 4063133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	1.7J	86	50-150	
Perfluoroheptanoic acid	ng/L	2	2.1	106	50-150	
Perfluorohexanesulfonic acid	ng/L	2	1.5J	74	50-150	
Perfluorononanoic acid	ng/L	2	ND	92	50-150	
Perfluorooctanesulfonic acid	ng/L	2	1.8J	88	50-150	
Perfluorooctanoic acid	ng/L	2	ND	98	50-150	
13C2-PFDA (S)	%			98	70-130	
13C2-PFHxA (S)	%			93	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

LABORATORY CONTROL SAMPLE: 4063133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
HFPO-DAS (S)	%			81	70-130	
NEtFOSAA-d5 (S)	%			114	70-130	

MATRIX SPIKE SAMPLE: 4063134

Parameter	Units	70179827001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	1.8	<1.8	80	70-130	
Perfluoroheptanoic acid	ng/L	<1.8	1.8	1.9	96	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.8	1.8	<1.8	74	70-130	
Perfluorononanoic acid	ng/L	<1.8	1.8	<1.8	88	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.8	1.8	<1.8	80	70-130	
Perfluorooctanoic acid	ng/L	<1.8	1.8	<1.8	90	70-130	
13C2-PFDA (S)	%				96	70-130	
13C2-PFHxA (S)	%				91	70-130	
HFPO-DAS (S)	%				80	70-130	
NEtFOSAA-d5 (S)	%				104	70-130	

SAMPLE DUPLICATE: 4063135

Parameter	Units	70179827002 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)	%	98	95			
13C2-PFHxA (S)	%	93	90			
HFPO-DAS (S)	%	78	82			
NEtFOSAA-d5 (S)	%	101	100			

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

QC Batch: 744488
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70179338004

METHOD BLANK: 4063136
Matrix: Water
Associated Lab Samples: 70179338004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	07/14/21 23:42	
Perfluoroheptanoic acid	ng/L	ND	2.0	07/14/21 23:42	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	07/14/21 23:42	
Perfluorononanoic acid	ng/L	ND	2.0	07/14/21 23:42	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	07/14/21 23:42	
Perfluorooctanoic acid	ng/L	ND	2.0	07/14/21 23:42	
13C2-PFDA (S)	%	89	70-130	07/14/21 23:42	
13C2-PFHxA (S)	%	81	70-130	07/14/21 23:42	
HFPO-DAS (S)	%	72	70-130	07/14/21 23:42	
NEtFOSAA-d5 (S)	%	105	70-130	07/14/21 23:42	

LABORATORY CONTROL SAMPLE: 4063137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	8	6.1	76	70-130	
Perfluoroheptanoic acid	ng/L	8	7.4	92	70-130	
Perfluorohexanesulfonic acid	ng/L	8	5.8	73	70-130	
Perfluorononanoic acid	ng/L	8	7.1	89	70-130	
Perfluorooctanesulfonic acid	ng/L	8	6.1	76	70-130	
Perfluorooctanoic acid	ng/L	8	6.6	83	70-130	
13C2-PFDA (S)	%			94	70-130	
13C2-PFHxA (S)	%			90	70-130	
HFPO-DAS (S)	%			94	70-130	
NEtFOSAA-d5 (S)	%			111	70-130	

LABORATORY CONTROL SAMPLE: 4063138

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	1.7J	86	50-150	
Perfluoroheptanoic acid	ng/L	2	ND	98	50-150	
Perfluorohexanesulfonic acid	ng/L	2	1.4J	68	50-150	
Perfluorononanoic acid	ng/L	2	ND	90	50-150	
Perfluorooctanesulfonic acid	ng/L	2	1.4J	70	50-150	
Perfluorooctanoic acid	ng/L	2	1.8J	88	50-150	
13C2-PFDA (S)	%			96	70-130	
13C2-PFHxA (S)	%			90	70-130	
HFPO-DAS (S)	%			90	70-130	

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REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
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(631)694-3040

QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

LABORATORY CONTROL SAMPLE: 4063138

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

MATRIX SPIKE SAMPLE: 4063139

Parameter	Units	70179338004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	7.2	5.7	76	70-130	
Perfluoroheptanoic acid	ng/L	20.6	7.2	27.5	96	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.8	7.2	6.3	70	70-130	
Perfluorononanoic acid	ng/L	<1.8	7.2	8.3	91	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.8	7.2	5.6	76	70-130	
Perfluorooctanoic acid	ng/L	6.7	7.2	12.4	79	70-130	
13C2-PFDA (S)	%				91	70-130	
13C2-PFHxA (S)	%				86	70-130	
HFPO-DAS (S)	%				86	70-130	
NEtFOSAA-d5 (S)	%				106	70-130	

SAMPLE DUPLICATE: 4063140

Parameter	Units	70179333001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.0	<1.9		30	
Perfluoroheptanoic acid	ng/L	<2.0	<1.9		30	
Perfluorohexanesulfonic acid	ng/L	<2.0	<1.9		30	
Perfluorononanoic acid	ng/L	<2.0	<1.9		30	
Perfluorooctanesulfonic acid	ng/L	<2.0	<1.9		30	
Perfluorooctanoic acid	ng/L	<2.0	<1.9		30	
13C2-PFDA (S)	%	93	93			
13C2-PFHxA (S)	%	88	89			
HFPO-DAS (S)	%	84	85			
NEtFOSAA-d5 (S)	%	112	119			

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QUALIFIERS

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

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: 70179338

[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: 70179338001

[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

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS 7/6
Pace Project No.: 70179338

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179338001	**N-00198**	EPA 522	217207	EPA 522	217307
70179338002	**N-12734**	EPA 522	217207	EPA 522	217307
70179338003	**N-07772**	EPA 522	217207	EPA 522	217307
70179338004	**N-07773**	EPA 522	217207	EPA 522	217307
70179338005	**N-10149**	EPA 522	217207	EPA 522	217307
70179338006	**N-12795**	EPA 522	217207	EPA 522	217307
70179338007	**N-07593**	EPA 522	217207	EPA 522	217307
70179338008	**N-08043**	EPA 522	217207	EPA 522	217307
70179338009	**N-06092**	EPA 522	217207	EPA 522	217307
70179338010	**N-06093**	EPA 522	217207	EPA 522	217307
70179338001	**N-00198**	EPA 537.1	744486	EPA 537.1	744980
70179338002	**N-12734**	EPA 537.1	744486	EPA 537.1	744980
70179338003	**N-07772**	EPA 537.1	744486	EPA 537.1	744980
70179338004	**N-07773**	EPA 537.1	744488	EPA 537.1	745194
70179338005	**N-10149**	EPA 537.1	744486	EPA 537.1	744980
70179338006	**N-12795**	EPA 537.1	744486	EPA 537.1	744980
70179338007	**N-07593**	EPA 537.1	744486	EPA 537.1	744980
70179338008	**N-08043**	EPA 537.1	744486	EPA 537.1	744980
70179338009	**N-06092**	EPA 537.1	744486	EPA 537.1	744980
70179338010	**N-06093**	EPA 537.1	744486	EPA 537.1	744980

WO#: 70179338

70179338

747

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 7-6-21

Collected By: JT

Accepted By: [illegible]

Cooler Temp: 17.3 °C (B) 12:49

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho water

Address: 125 Comet Ct Syracuse NY 14791

Phone #: 516 921 8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
7-6-21 8:42	PW	W-00198 well 3	RW		RO			1,4 dioxane / PFOS/PFOA	
7-6-21 8:57	PW	W-12734 well 4	RW		RO			1,4 dioxane / PFOS/PFOA	
7-6-21 11:49	PW	W-07772 well 18	RW		RO			1,4 dioxane / PFOS/PFOA	
7-6-21 12:05	PW	W-07773 well 19	RW		RO			1,4 dioxane / PFOS/PFOA	
7-6-21 11:11	PW	W-10149 well 20	RW		RO			1,4 dioxane / PFOS/PFOA	
7-6-21 11:30	PW	W-12795 well 21	RW		RO			1,4 dioxane / PFOS/PFOA	
7-6-21 6:55	PW	W-07593 well 7	RW		RO			1,4 dioxane / PFOS/PFOA	
7-6-21 9:37	PW	W-08043 well 23	RW		RO			1,4 dioxane / PFOS/PFOA	
7-6-21 10:17	PW	W-06092 well 12	RW		RO			1,4 dioxane / PFOS/PFOA	
7-6-21 9:57	PW	W-06093 well 13	RW		RO			1,4 dioxane / PFOS/PFOA	

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70179338
PM: JSA **Due Date: 07/16/21**
CLIENT: JWD

Client Name: Jericho WD

Pro

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): 17.3 Cooler Temperature Corrected(°C): 17.3

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: KD 7/6/21

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix: SL WT OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked? pH paper Lot #	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐ Yes	☐ No	☑ N/A	Sample # Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐ Yes	☐ No	☑ N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot #	☐ Yes	☐ No	☑ N/A	15.
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):_____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

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

July 19, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on July 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
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

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

CERTIFICATIONS

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

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

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

SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70179535001	**N-08713**	Drinking Water	07/07/21 09:08	07/07/21 13:26
70179535002	**N-14003**	Drinking Water	07/07/21 09:25	07/07/21 13:26
70179535003	**N-05201**	Drinking Water	07/07/21 09:40	07/07/21 13:26
70179535004	**N-11295**	Drinking Water	07/07/21 10:42	07/07/21 13:26
70179535005	**N-11107**	Drinking Water	07/07/21 10:51	07/07/21 13:26
70179535006	**N-07781**	Drinking Water	07/07/21 10:58	07/07/21 13:26
70179535007	**N-03475**	Drinking Water	07/07/21 10:12	07/07/21 13:26
70179535008	**N-08355**	Drinking Water	07/07/21 11:18	07/07/21 13:26
70179535009	**N-13119**	Drinking Water	07/07/21 11:36	07/07/21 13:26

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

SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70179535001	**N-08713**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70179535002	**N-14003**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70179535003	**N-05201**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70179535004	**N-11295**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70179535005	**N-11107**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70179535006	**N-07781**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70179535007	**N-03475**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70179535008	**N-08355**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70179535009	**N-13119**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O

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

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Sample: N-08713 **Lab ID: 70179535001** Collected: 07/07/21 09:08 Received: 07/07/21 13:26 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)	**0.31**	ug/L	0.020		1	07/13/21 16:18	07/14/21 19:09	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	86	%	70-130		1	07/13/21 16:18	07/14/21 19:09		
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	07/13/21 11:33	07/15/21 21:32	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/15/21 21:32	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/15/21 21:32	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/15/21 21:32	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/13/21 11:33	07/15/21 21:32	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	07/13/21 11:33	07/15/21 21:32	335-67-1	
Surrogates									
13C2-PFDA (S)	91	%	70-130		1	07/13/21 11:33	07/15/21 21:32		
13C2-PFHxA (S)	106	%	70-130		1	07/13/21 11:33	07/15/21 21:32		
HFPO-DAS (S)	88	%	70-130		1	07/13/21 11:33	07/15/21 21:32		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Sample: N-14003 **Lab ID: 70179535002** Collected: 07/07/21 09:25 Received: 07/07/21 13:26 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)	**0.14**	ug/L	0.020		1	07/13/21 16:18	07/14/21 19:26	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	88	%	70-130		1	07/13/21 16:18	07/14/21 19:26		
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	07/13/21 11:33	07/15/21 21:48	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	07/13/21 11:33	07/15/21 21:48	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	07/13/21 11:33	07/15/21 21:48	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	07/13/21 11:33	07/15/21 21:48	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	07/13/21 11:33	07/15/21 21:48	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	07/13/21 11:33	07/15/21 21:48	335-67-1	
Surrogates									
13C2-PFDA (S)	88	%	70-130		1	07/13/21 11:33	07/15/21 21:48		
13C2-PFHxA (S)	110	%	70-130		1	07/13/21 11:33	07/15/21 21:48		
HFPO-DAS (S)	96	%	70-130		1	07/13/21 11:33	07/15/21 21:48		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Sample: N-05201 **Lab ID: 70179535003** Collected: 07/07/21 09:40 Received: 07/07/21 13:26 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)	**<0.020**	ug/L	0.020		1	07/14/21 09:08	07/14/21 20:18	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	85	%	70-130		1	07/14/21 09:08	07/14/21 20:18		
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	07/13/21 11:33	07/15/21 22:03	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/15/21 22:03	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/15/21 22:03	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/15/21 22:03	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/13/21 11:33	07/15/21 22:03	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	07/13/21 11:33	07/15/21 22:03	335-67-1	
Surrogates									
13C2-PFDA (S)	95	%	70-130		1	07/13/21 11:33	07/15/21 22:03		
13C2-PFHxA (S)	110	%	70-130		1	07/13/21 11:33	07/15/21 22:03		
HFPO-DAS (S)	90	%	70-130		1	07/13/21 11:33	07/15/21 22:03		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Sample: N-11295 **Lab ID: 70179535004** Collected: 07/07/21 10:42 Received: 07/07/21 13:26 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)	**0.067**	ug/L	0.020		1	07/14/21 09:08	07/14/21 20:52	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	89	%	70-130		1	07/14/21 09:08	07/14/21 20:52		
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	07/13/21 11:33	07/15/21 22:35	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	07/13/21 11:33	07/15/21 22:35	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	07/13/21 11:33	07/15/21 22:35	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	07/13/21 11:33	07/15/21 22:35	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	07/13/21 11:33	07/15/21 22:35	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	07/13/21 11:33	07/15/21 22:35	335-67-1	
Surrogates									
13C2-PFDA (S)	90	%	70-130		1	07/13/21 11:33	07/15/21 22:35		
13C2-PFHxA (S)	107	%	70-130		1	07/13/21 11:33	07/15/21 22:35		
HFPO-DAS (S)	85	%	70-130		1	07/13/21 11:33	07/15/21 22:35		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Sample: N-11107 **Lab ID: 70179535005** Collected: 07/07/21 10:51 Received: 07/07/21 13:26 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)	**0.12**	ug/L	0.020		1	07/14/21 09:08	07/14/21 21:43	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	07/14/21 09:08	07/14/21 21:43		
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	07/13/21 11:33	07/17/21 20:41	375-73-5	
Perfluoroheptanoic acid	**2.7**	ng/L	1.9		1	07/13/21 11:33	07/17/21 20:41	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/17/21 20:41	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/17/21 20:41	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/13/21 11:33	07/17/21 20:41	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	07/13/21 11:33	07/17/21 20:41	335-67-1	
Surrogates									
13C2-PFDA (S)	109	%	70-130		1	07/13/21 11:33	07/17/21 20:41		
13C2-PFHxA (S)	102	%	70-130		1	07/13/21 11:33	07/17/21 20:41		
NEtFOSAA-d5 (S)	112	%	70-130		1	07/13/21 11:33	07/17/21 20:41		
HFPO-DAS (S)	97	%	70-130		1	07/13/21 11:33	07/17/21 20:41		

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Sample: N-07781 **Lab ID: 70179535006** Collected: 07/07/21 10:58 Received: 07/07/21 13:26 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)	**0.53**	ug/L	0.020		1	07/14/21 09:08	07/14/21 22:00	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	07/14/21 09:08	07/14/21 22:00		
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	07/13/21 11:33	07/17/21 21:20	375-73-5	
Perfluoroheptanoic acid	**2.3**	ng/L	1.8		1	07/13/21 11:33	07/17/21 21:20	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	07/13/21 11:33	07/17/21 21:20	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	07/13/21 11:33	07/17/21 21:20	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	07/13/21 11:33	07/17/21 21:20	1763-23-1	
Perfluorooctanoic acid	**2.3**	ng/L	1.8	10	1	07/13/21 11:33	07/17/21 21:20	335-67-1	
Surrogates									
13C2-PFDA (S)	103	%	70-130		1	07/13/21 11:33	07/17/21 21:20		
13C2-PFHxA (S)	94	%	70-130		1	07/13/21 11:33	07/17/21 21:20		
NEtFOSAA-d5 (S)	118	%	70-130		1	07/13/21 11:33	07/17/21 21:20		
HFPO-DAS (S)	91	%	70-130		1	07/13/21 11:33	07/17/21 21:20		

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Sample: N-03475 **Lab ID: 70179535007** Collected: 07/07/21 10:12 Received: 07/07/21 13:26 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)	**0.050**	ug/L	0.020		1	07/14/21 09:08	07/14/21 22:17	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	88	%	70-130		1	07/14/21 09:08	07/14/21 22:17		
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	07/13/21 11:33	07/15/21 22:19	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/15/21 22:19	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/15/21 22:19	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/15/21 22:19	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/13/21 11:33	07/15/21 22:19	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	07/13/21 11:33	07/15/21 22:19	335-67-1	
Surrogates									
13C2-PFDA (S)	95	%	70-130		1	07/13/21 11:33	07/15/21 22:19		
13C2-PFHxA (S)	111	%	70-130		1	07/13/21 11:33	07/15/21 22:19		
HFPO-DAS (S)	85	%	70-130		1	07/13/21 11:33	07/15/21 22:19		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Sample: N-08355 **Lab ID: 70179535008** Collected: 07/07/21 11:18 Received: 07/07/21 13:26 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)	**8.4**	ug/L	0.10		5	07/14/21 09:08	07/15/21 16:05	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		5	07/14/21 09:08	07/15/21 16:05		
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	07/13/21 11:33	07/17/21 21:58	375-73-5	
Perfluoroheptanoic acid	**6.3**	ng/L	1.9		1	07/13/21 11:33	07/17/21 21:58	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/17/21 21:58	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	07/13/21 11:33	07/17/21 21:58	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	07/13/21 11:33	07/17/21 21:58	1763-23-1	
Perfluorooctanoic acid	**4.3**	ng/L	1.9	10	1	07/13/21 11:33	07/17/21 21:58	335-67-1	
Surrogates									
13C2-PFDA (S)	102	%	70-130		1	07/13/21 11:33	07/17/21 21:58		
13C2-PFHxA (S)	97	%	70-130		1	07/13/21 11:33	07/17/21 21:58		
HFPO-DAS (S)	93	%	70-130		1	07/13/21 11:33	07/17/21 21:58		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Sample: N-13119 **Lab ID: 70179535009** Collected: 07/07/21 11:36 Received: 07/07/21 13:26 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)	**2.3**	ug/L	0.020		1	07/14/21 09:08	07/14/21 22:51	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	84	%	70-130		1	07/14/21 09:08	07/14/21 22:51		
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	07/13/21 11:33	07/17/21 22:17	375-73-5	
Perfluoroheptanoic acid	**1.9**	ng/L	1.8		1	07/13/21 11:33	07/17/21 22:17	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	07/13/21 11:33	07/17/21 22:17	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	07/13/21 11:33	07/17/21 22:17	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	07/13/21 11:33	07/17/21 22:17	1763-23-1	
Perfluorooctanoic acid	**2.3**	ng/L	1.8	10	1	07/13/21 11:33	07/17/21 22:17	335-67-1	
Surrogates									
13C2-PFDA (S)	101	%	70-130		1	07/13/21 11:33	07/17/21 22:17		
13C2-PFHxA (S)	95	%	70-130		1	07/13/21 11:33	07/17/21 22:17		
HFPO-DAS (S)	84	%	70-130		1	07/13/21 11:33	07/17/21 22:17		

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

QC Batch: 217472
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70179535001, 70179535002

METHOD BLANK: 1096114
Matrix: Drinking Water
Associated Lab Samples: 70179535001, 70179535002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	07/14/21 12:15	
1,4-Dioxane-d8 (S)	%	97	70-130	07/14/21 12:15	

LABORATORY CONTROL SAMPLE: 1096115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.7	84	70-130	
1,4-Dioxane-d8 (S)	%			91	70-130	

MATRIX SPIKE SAMPLE: 1096116

Parameter	Units	70179534003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.040	2	1.9	93	70-130	
1,4-Dioxane-d8 (S)	%				94	70-130	

SAMPLE DUPLICATE: 1096117

Parameter	Units	70179598001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.14	0.14	2	20	
1,4-Dioxane-d8 (S)	%	98	97		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

QC Batch: 217550
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70179535003, 70179535004, 70179535005, 70179535006, 70179535007, 70179535008, 70179535009

METHOD BLANK: 1096671
Matrix: Drinking Water
Associated Lab Samples: 70179535003, 70179535004, 70179535005, 70179535006, 70179535007, 70179535008, 70179535009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	07/14/21 19:43	
1,4-Dioxane-d8 (S)	%	88	70-130	07/14/21 19:43	

LABORATORY CONTROL SAMPLE: 1096672

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

MATRIX SPIKE SAMPLE: 1096673

Parameter	Units	70179535003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	4	3.5	89	70-130	
1,4-Dioxane-d8 (S)	%				87	70-130	

SAMPLE DUPLICATE: 1096674

Parameter	Units	70179535004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.067	0.058	13	20	
1,4-Dioxane-d8 (S)	%	89	90		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

QC Batch: 744826
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70179535001, 70179535002, 70179535003, 70179535004, 70179535007

METHOD BLANK: 4064965
Matrix: Water
Associated Lab Samples: 70179535001, 70179535002, 70179535003, 70179535004, 70179535007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	07/15/21 16:16	
Perfluoroheptanoic acid	ng/L	ND	2.0	07/15/21 16:16	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	07/15/21 16:16	
Perfluorononanoic acid	ng/L	ND	2.0	07/15/21 16:16	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	07/15/21 16:16	
Perfluorooctanoic acid	ng/L	ND	2.0	07/15/21 16:16	
13C2-PFDA (S)	%	98	70-130	07/15/21 16:16	
13C2-PFHxA (S)	%	99	70-130	07/15/21 16:16	
HFPO-DAS (S)	%	83	70-130	07/15/21 16:16	
NEtFOSAA-d5 (S)	%	106	70-130	07/15/21 16:16	

LABORATORY CONTROL SAMPLE: 4064966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	8	6.6	82	70-130	
Perfluoroheptanoic acid	ng/L	8	6.6	82	70-130	
Perfluorohexanesulfonic acid	ng/L	8	6.3	79	70-130	
Perfluorononanoic acid	ng/L	8	6.3	79	70-130	
Perfluorooctanesulfonic acid	ng/L	8	7.1	89	70-130	
Perfluorooctanoic acid	ng/L	8	6.8	85	70-130	
13C2-PFDA (S)	%			105	70-130	
13C2-PFHxA (S)	%			104	70-130	
HFPO-DAS (S)	%			88	70-130	
NEtFOSAA-d5 (S)	%			118	70-130	

LABORATORY CONTROL SAMPLE: 4064967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	1.7J	84	50-150	
Perfluoroheptanoic acid	ng/L	2	1.8J	89	50-150	
Perfluorohexanesulfonic acid	ng/L	2	1.6J	79	50-150	
Perfluorononanoic acid	ng/L	2	ND	86	50-150	
Perfluorooctanesulfonic acid	ng/L	2	2.1	105	50-150	
Perfluorooctanoic acid	ng/L	2	1.8J	91	50-150	
13C2-PFDA (S)	%			110	70-130	
13C2-PFHxA (S)	%			109	70-130	
HFPO-DAS (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

LABORATORY CONTROL SAMPLE: 4064967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			124	70-130	

MATRIX SPIKE SAMPLE: 4064968

Parameter	Units	70178941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	1.9	<1.9	82	70-130	
Perfluoroheptanoic acid	ng/L	<1.9	1.9	<1.9	85	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	1.9	<1.9	79	70-130	
Perfluorononanoic acid	ng/L	<1.9	1.9	<1.9	74	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.9	1.9	<1.9	80	70-130	
Perfluorooctanoic acid	ng/L	<1.9	1.9	<1.9	88	70-130	
13C2-PFDA (S)	%				107	70-130	
13C2-PFHxA (S)	%				112	70-130	
HFPO-DAS (S)	%				101	70-130	
NEtFOSAA-d5 (S)	%				133	70-130	S0

SAMPLE DUPLICATE: 4064969

Parameter	Units	70178941004 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)	%	105	104			
13C2-PFHxA (S)	%	109	111			
HFPO-DAS (S)	%	101	104			
NEtFOSAA-d5 (S)	%	113	113			

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

QC Batch: 744827
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70179535005, 70179535006, 70179535008, 70179535009

METHOD BLANK: 4064970
Matrix: Water
Associated Lab Samples: 70179535005, 70179535006, 70179535008, 70179535009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	07/17/21 18:28	
Perfluoroheptanoic acid	ng/L	ND	2.0	07/17/21 18:28	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	07/17/21 18:28	
Perfluorononanoic acid	ng/L	ND	2.0	07/17/21 18:28	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	07/17/21 18:28	
Perfluorooctanoic acid	ng/L	ND	2.0	07/17/21 18:28	
13C2-PFDA (S)	%	114	70-130	07/17/21 18:28	
13C2-PFHxA (S)	%	111	70-130	07/17/21 18:28	
HFPO-DAS (S)	%	103	70-130	07/17/21 18:28	
NEtFOSAA-d5 (S)	%	134	70-130	07/17/21 18:28	S3

LABORATORY CONTROL SAMPLE: 4064971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	160	135	85	70-130	
Perfluoroheptanoic acid	ng/L	160	156	98	70-130	
Perfluorohexanesulfonic acid	ng/L	160	142	89	70-130	
Perfluorononanoic acid	ng/L	160	146	92	70-130	
Perfluorooctanesulfonic acid	ng/L	160	139	87	70-130	
Perfluorooctanoic acid	ng/L	160	150	94	70-130	
13C2-PFDA (S)	%			115	70-130	
13C2-PFHxA (S)	%			112	70-130	
HFPO-DAS (S)	%			114	70-130	
NEtFOSAA-d5 (S)	%			121	70-130	

LABORATORY CONTROL SAMPLE: 4064972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	1.8J	88	50-150	
Perfluoroheptanoic acid	ng/L	2	2.3	114	50-150	
Perfluorohexanesulfonic acid	ng/L	2	1.4J	68	50-150	
Perfluorononanoic acid	ng/L	2	ND	94	50-150	
Perfluorooctanesulfonic acid	ng/L	2	1.5J	74	50-150	
Perfluorooctanoic acid	ng/L	2	2.1	104	50-150	
13C2-PFDA (S)	%			113	70-130	
13C2-PFHxA (S)	%			107	70-130	
HFPO-DAS (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

LABORATORY CONTROL SAMPLE: 4064972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			132	70-130	S0

MATRIX SPIKE SAMPLE: 4064973

Parameter	Units	70179535005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	7.4	6.3	83	70-130	
Perfluoroheptanoic acid	ng/L	2.7	7.4	10.4	104	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	7.4	5.9	78	70-130	
Perfluorononanoic acid	ng/L	<1.9	7.4	7.2	90	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.9	7.4	6.0	79	70-130	
Perfluorooctanoic acid	ng/L	<1.9	7.4	8.7	91	70-130	
13C2-PFDA (S)	%				101	70-130	
13C2-PFHxA (S)	%				96	70-130	
HFPO-DAS (S)	%				94	70-130	
NEtFOSAA-d5 (S)	%				121	70-130	

SAMPLE DUPLICATE: 4064974

Parameter	Units	70179535006 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluoroheptanoic acid	ng/L	2.3	2.4	3	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	2.3	2.2	3	30	
13C2-PFDA (S)	%	103	103			
13C2-PFHxA (S)	%	94	98			
HFPO-DAS (S)	%	91	92			
NEtFOSAA-d5 (S)	%	118	130			

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QUALIFIERS

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

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: 70179535

[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: 70179535001

[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: 70179535007

[1] RUN TO WASTE

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS 7/7
Pace Project No.: 70179535

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179535001	**N-08713**	EPA 522	217472	EPA 522	217651
70179535002	**N-14003**	EPA 522	217472	EPA 522	217651
70179535003	**N-05201**	EPA 522	217550	EPA 522	217687
70179535004	**N-11295**	EPA 522	217550	EPA 522	217687
70179535005	**N-11107**	EPA 522	217550	EPA 522	217687
70179535006	**N-07781**	EPA 522	217550	EPA 522	217687
70179535007	**N-03475**	EPA 522	217550	EPA 522	217687
70179535008	**N-08355**	EPA 522	217550	EPA 522	217687
70179535009	**N-13119**	EPA 522	217550	EPA 522	217687
70179535001	**N-08713**	EPA 537.1	744826	EPA 537.1	745545
70179535002	**N-14003**	EPA 537.1	744826	EPA 537.1	745545
70179535003	**N-05201**	EPA 537.1	744826	EPA 537.1	745545
70179535004	**N-11295**	EPA 537.1	744826	EPA 537.1	745545
70179535005	**N-11107**	EPA 537.1	744827	EPA 537.1	745546
70179535006	**N-07781**	EPA 537.1	744827	EPA 537.1	745546
70179535007	**N-03475**	EPA 537.1	744826	EPA 537.1	745545
70179535008	**N-08355**	EPA 537.1	744827	EPA 537.1	745546
70179535009	**N-13119**	EPA 537.1	744827	EPA 537.1	745546

WO#: 70179535

70179535

Sample Request Form
PUBLIC WATER SUPPLIER

7/7/21

Date: 7-7-21 13:26

Collected By: TK (B)

Accepted By: [signature]

Cooler Temp: 16.0 °C

☑ WELL OFF LINE
well #7

☑ WELL RUN TO SYSTEM
1, 27, 28, 29, 30, 22, 25, 26

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water Dist

Address: 125 Convent Rd
Syosset N.Y 11791

Phone #: (516) 921-8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
7-7-21 08:08	PW	well #27 N-08713	RW		RO	Ø		1,4-Dioxane / PFOS/PFOA	
7-7-21 09:25	PW	well #28 N-14003	RW		RO	Ø		" / "	
7-7-21 09:40	PW	well # 11 N-05201	RW		RO	Ø		" "	
7-7-21 10:42	PW	well #30 N-11295	RW		RO	Ø		" "	
7-7-21 10:51	PW	well #29 N-11107	RW		RO	Ø		" "	
7-7-21 10:58	PW	well #22 N-07781	RW		RO	Ø		" "	
7-7-21 10:12	PW	well #7 N-03475	RW		RO	Ø		" "	
7-7-21 11:18	PW	well #25 N-08355	RW		RO	Ø		" "	
7-7-21 11:36	PW	well #26 N-13119	RW		RO	Ø		1,4-Dioxane / PFOS/PFOA	

Remarks:

Pace Analytical®

Sample Condition Upon Recei

WO# : 70179535
PM: JSA Due Date: 07/19/21
CLIENT: JWD

Client Name: JWD

Project

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): 16.0 Cooler Temperature Corrected(°C): 16.0

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: KW 7/19/21

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

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

				COMMENTS:
Chain of Custody Present:	☒ Yes	☐ No		1.
Chain of Custody Filled Out:	☒ Yes	☐ No		2.
Chain of Custody Relinquished:	☒ Yes	☐ No		3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No		6.
Rush Turn Around Time Requested:	☐ Yes	☒ No		7.
Sufficient Volume: (Triple volume provided for	☒ Yes	☐ No		8.
Correct Containers Used:	☒ Yes	☐ No		9.
-Pace Containers Used:	☐ Yes	☐ No		
Containers Intact:	☒ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL WT OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	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:	☐ Yes	☐ No	☒ 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?	☐ Yes	☐ No	☒ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☒ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☒ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if applicable):_____				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

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

August 20, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: 1,4 Dioxane/PFAS 8/3
Pace Project No.: 70182647

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on August 03, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Allen Fok, D & B Engineers
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

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

CERTIFICATIONS

Project: 1,4 Dioxane/PFAS 8/3
Pace Project No.: 70182647

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

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

SAMPLE SUMMARY

Project: 1,4 Dioxane/PFAS 8/3
Pace Project No.: 70182647

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70182647001	**N-06651**	Drinking Water	08/03/21 10:55	08/03/21 11:18

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

SAMPLE ANALYTE COUNT

Project: 1,4 Dioxane/PFAS 8/3
Pace Project No.: 70182647

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70182647001	**N-06651**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O

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

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

ANALYTICAL RESULTS

Project: 1,4 Dioxane/PFAS 8/3
Pace Project No.: 70182647

Sample: N-06651 **Lab ID: 70182647001** Collected: 08/03/21 10:55 Received: 08/03/21 11:18 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)	**3.2**	ug/L	0.020		1	08/10/21 15:21	08/11/21 15:36	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	08/10/21 15:21	08/11/21 15:36		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/16/21 11:50	08/18/21 03:06	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	08/16/21 11:50	08/18/21 03:06	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/16/21 11:50	08/18/21 03:06	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/16/21 11:50	08/18/21 03:06	375-95-1	
Perfluorooctanesulfonic acid	**3.0**	ng/L	1.8	10	1	08/16/21 11:50	08/18/21 03:06	1763-23-1	
Perfluorooctanoic acid	**2.9**	ng/L	1.8	10	1	08/16/21 11:50	08/18/21 03:06	335-67-1	
Surrogates									
13C2-PFDA (S)	119	%	70-130		1	08/16/21 11:50	08/18/21 03:06		
13C2-PFHxA (S)	121	%	70-130		1	08/16/21 11:50	08/18/21 03:06		
HFPO-DAS (S)	129	%	70-130		1	08/16/21 11:50	08/18/21 03:06		

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

QUALITY CONTROL DATA

Project: 1,4 Dioxane/PFAS 8/3
Pace Project No.: 70182647

QC Batch: 221228
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70182647001

METHOD BLANK: 1115264 Matrix: Drinking Water
Associated Lab Samples: 70182647001

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

LABORATORY CONTROL SAMPLE: 1115265

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

MATRIX SPIKE SAMPLE: 1115266

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

SAMPLE DUPLICATE: 1115267

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

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 1,4 Dioxane/PFAS 8/3
Pace Project No.: 70182647

QC Batch: 754225
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70182647001

METHOD BLANK: 4120441
Matrix: Water
Associated Lab Samples: 70182647001

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

LABORATORY CONTROL SAMPLE: 4120442

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

LABORATORY CONTROL SAMPLE: 4120443

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

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 1,4 Dioxane/PFAS 8/3
Pace Project No.: 70182647

LABORATORY CONTROL SAMPLE: 4120443

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

MATRIX SPIKE SAMPLE: 4120444

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

SAMPLE DUPLICATE: 4120445

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

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.

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

QUALIFIERS

Project: 1,4 Dioxane/PFAS 8/3
Pace Project No.: 70182647

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: 70182647

[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: 70182647001

[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.

[2] RUN TO WASTE

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 Dioxane/PFAS 8/3
Pace Project No.: 70182647

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70182647001	**N-06651**	EPA 522	221228	EPA 522	221428
70182647001	**N-06651**	EPA 537.1	754225	EPA 537.1	754701

WO#: 70182647

70182647

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 8/3/21

Collected By: CS

Accepted By: [illegible] 8/3/21 11:18

Cooler Temp: 13.7 °C

☑ WELL OFF LINE Ran to waste

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water

Address: 125 Convent Rd
Syosset, NY 11791

Phone #: (516) 921-8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
8/3/21 10:55am	PW	Well 14 H-06651	RW		RO			1,4 Dioxane	

Remarks:

WO#: 70182647
PM: JSA Due Date: 08/13/21
CLIENT: JWD

1747
[illegible]/420-8436

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 8/3/21
Collected By: CS
Accepted By: [illegible] 8/3/21 11:18
Cooler Temp: 13.2 °C
(B)

☑ WELL OFF LINE Ran to waste

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water
Address: 125 Convent Rd
Syosset, NY 11791
Phone #: (516)921-8280
Attn:
Proj. # or (Name):
Bill To:
Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
8/3/21 10:55am	PW	Well 14 N-06651	RW		RO			PFOS/PFOA	

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70182647
PM: JSA **Due Date: 08/13/21**
CLIENT: JWD

Client Name: Jericho WD

Project

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

Tracking #:

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

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

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 13.2 Cooler Temperature Corrected(°C): 13.2

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet Blue None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

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

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix: SL WT OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked? pH paper Lot #	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐ Yes	☐ No	☑ N/A	Sample # Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐ Yes	☐ No	☑ N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot #	☐ Yes	☐ No	☑ N/A	15.
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

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

August 16, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on August 02, 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
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

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

CERTIFICATIONS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

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

SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70182527001	**N-00198**	Drinking Water	08/02/21 08:26	08/02/21 13:02
70182527002	**N-12734**	Drinking Water	08/02/21 08:40	08/02/21 13:02
70182527003	**N-08043**	Drinking Water	08/02/21 12:05	08/02/21 13:02
70182527004	**N-06092**	Drinking Water	08/02/21 11:52	08/02/21 13:02
70182527005	**N-06093**	Drinking Water	08/02/21 11:45	08/02/21 13:02
70182527006	**N-10149**	Drinking Water	08/02/21 09:23	08/02/21 13:02
70182527007	**N-12795**	Drinking Water	08/02/21 09:32	08/02/21 13:02
70182527008	**N-07593**	Drinking Water	08/02/21 09:10	08/02/21 13:02
70182527009	**N-07772**	Drinking Water	08/02/21 10:40	08/02/21 13:02
70182527010	**N-07773**	Drinking Water	08/02/21 10:55	08/02/21 13:02

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575 Broad Hollow Road
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(631)694-3040

SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70182527001	**N-00198**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CTB	9	PASI-O
70182527002	**N-12734**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CTB	9	PASI-O
70182527003	**N-08043**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CTB	9	PASI-O
70182527004	**N-06092**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CTB	9	PASI-O
70182527005	**N-06093**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CTB	9	PASI-O
70182527006	**N-10149**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CTB	9	PASI-O
70182527007	**N-12795**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70182527008	**N-07593**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70182527009	**N-07772**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70182527010	**N-07773**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O

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

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Sample: N-00198 **Lab ID: 70182527001** Collected: 08/02/21 08:26 Received: 08/02/21 13:02 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)	**0.56**	ug/L	0.020		1	08/06/21 11:38	08/07/21 00:42	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	08/06/21 11:38	08/07/21 00:42		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 16:50	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 16:50	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 16:50	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 16:50	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 16:50	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 16:50	335-67-1	
Surrogates									
13C2-PFDA (S)	106	%	70-130		1	08/10/21 13:42	08/12/21 16:50		
13C2-PFHxA (S)	106	%	70-130		1	08/10/21 13:42	08/12/21 16:50		
HFPO-DAS (S)	111	%	70-130		1	08/10/21 13:42	08/12/21 16:50		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Sample: N-12734 **Lab ID: 70182527002** Collected: 08/02/21 08:40 Received: 08/02/21 13:02 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)	**0.31**	ug/L	0.020		1	08/06/21 11:38	08/07/21 00:59	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	08/06/21 11:38	08/07/21 00:59		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 17:19	375-73-5	
Perfluoroheptanoic acid	**4.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 17:19	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 17:19	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 17:19	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 17:19	1763-23-1	
Perfluorooctanoic acid	**3.1**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 17:19	335-67-1	
Surrogates									
13C2-PFDA (S)	104	%	70-130		1	08/10/21 13:42	08/12/21 17:19		
13C2-PFHxA (S)	103	%	70-130		1	08/10/21 13:42	08/12/21 17:19		
HFPO-DAS (S)	102	%	70-130		1	08/10/21 13:42	08/12/21 17:19		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Sample: N-08043 **Lab ID: 70182527003** Collected: 08/02/21 12:05 Received: 08/02/21 13:02 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)	**0.41**	ug/L	0.020		1	08/06/21 11:38	08/07/21 01:16	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	08/06/21 11:38	08/07/21 01:16		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 18:19	375-73-5	
Perfluoroheptanoic acid	**2.2**	ng/L	1.8		1	08/10/21 13:42	08/12/21 18:19	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 18:19	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 18:19	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 18:19	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 18:19	335-67-1	
Surrogates									
13C2-PFDA (S)	108	%	70-130		1	08/10/21 13:42	08/12/21 18:19		
13C2-PFHxA (S)	105	%	70-130		1	08/10/21 13:42	08/12/21 18:19		
HFPO-DAS (S)	109	%	70-130		1	08/10/21 13:42	08/12/21 18:19		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Sample: N-06092 **Lab ID: 70182527004** Collected: 08/02/21 11:52 Received: 08/02/21 13:02 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)	**0.067**	ug/L	0.020		1	08/06/21 11:38	08/07/21 01:33	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	08/06/21 11:38	08/07/21 01:33		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/12/21 18:04	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/12/21 18:04	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/12/21 18:04	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/12/21 18:04	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	08/10/21 13:42	08/12/21 18:04	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	08/10/21 13:42	08/12/21 18:04	335-67-1	
Surrogates									
13C2-PFDA (S)	110	%	70-130		1	08/10/21 13:42	08/12/21 18:04		
13C2-PFHxA (S)	108	%	70-130		1	08/10/21 13:42	08/12/21 18:04		
HFPO-DAS (S)	113	%	70-130		1	08/10/21 13:42	08/12/21 18:04		

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Sample: N-06093 **Lab ID: 70182527005** Collected: 08/02/21 11:45 Received: 08/02/21 13:02 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)	**0.12**	ug/L	0.020		1	08/06/21 11:38	08/07/21 01:50	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	08/06/21 11:38	08/07/21 01:50		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 17:49	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 17:49	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 17:49	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 17:49	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 17:49	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 17:49	335-67-1	
Surrogates									
13C2-PFDA (S)	105	%	70-130		1	08/10/21 13:42	08/12/21 17:49		
13C2-PFHxA (S)	107	%	70-130		1	08/10/21 13:42	08/12/21 17:49		
HFPO-DAS (S)	108	%	70-130		1	08/10/21 13:42	08/12/21 17:49		

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Sample: N-10149 **Lab ID: 70182527006** Collected: 08/02/21 09:23 Received: 08/02/21 13:02 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)	**1.0**	ug/L	0.020		1	08/06/21 11:38	08/07/21 02:06	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	08/06/21 11:38	08/07/21 02:06		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 17:34	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 17:34	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 17:34	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 17:34	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 17:34	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 17:34	335-67-1	
Surrogates									
13C2-PFDA (S)	107	%	70-130		1	08/10/21 13:42	08/12/21 17:34		
13C2-PFHxA (S)	105	%	70-130		1	08/10/21 13:42	08/12/21 17:34		
HFPO-DAS (S)	103	%	70-130		1	08/10/21 13:42	08/12/21 17:34		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Sample: N-12795 **Lab ID: 70182527007** Collected: 08/02/21 09:32 Received: 08/02/21 13:02 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)	**0.44**	ug/L	0.020		1	08/06/21 11:38	08/07/21 02:40	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	08/06/21 11:38	08/07/21 02:40		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 01:54	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 01:54	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 01:54	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 01:54	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 01:54	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 01:54	335-67-1	
Surrogates									
13C2-PFDA (S)	120	%	70-130		1	08/10/21 13:42	08/12/21 01:54		
13C2-PFHxA (S)	121	%	70-130		1	08/10/21 13:42	08/12/21 01:54		
HFPO-DAS (S)	122	%	70-130		1	08/10/21 13:42	08/12/21 01:54		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Sample: N-07593 **Lab ID: 70182527008** Collected: 08/02/21 09:10 Received: 08/02/21 13:02 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)	**0.17**	ug/L	0.020		1	08/06/21 11:38	08/07/21 02:57	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	91	%	70-130		1	08/06/21 11:38	08/07/21 02:57		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 01:09	375-73-5	
Perfluoroheptanoic acid	**2.4**	ng/L	1.8		1	08/10/21 13:42	08/12/21 01:09	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 01:09	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 01:09	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 01:09	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 01:09	335-67-1	
Surrogates									
13C2-PFDA (S)	115	%	70-130		1	08/10/21 13:42	08/12/21 01:09		
13C2-PFHxA (S)	118	%	70-130		1	08/10/21 13:42	08/12/21 01:09		
HFPO-DAS (S)	119	%	70-130		1	08/10/21 13:42	08/12/21 01:09		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Sample: N-07772 **Lab ID: 70182527009** Collected: 08/02/21 10:40 Received: 08/02/21 13:02 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)	**0.26**	ug/L	0.020		1	08/06/21 11:38	08/07/21 03:14	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	08/06/21 11:38	08/07/21 03:14		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 02:09	375-73-5	
Perfluoroheptanoic acid	**20.2**	ng/L	1.8		1	08/10/21 13:42	08/12/21 02:09	375-85-9	
Perfluorohexanesulfonic acid	**1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 02:09	355-46-4	
Perfluorononanoic acid	**2.4**	ng/L	1.8		1	08/10/21 13:42	08/12/21 02:09	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 02:09	1763-23-1	
Perfluorooctanoic acid	**7.6**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 02:09	335-67-1	
Surrogates									
13C2-PFDA (S)	118	%	70-130		1	08/10/21 13:42	08/12/21 02:09		
13C2-PFHxA (S)	119	%	70-130		1	08/10/21 13:42	08/12/21 02:09		
HFPO-DAS (S)	120	%	70-130		1	08/10/21 13:42	08/12/21 02:09		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Sample: N-07773 **Lab ID: 70182527010** Collected: 08/02/21 10:55 Received: 08/02/21 13:02 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)	**0.33**	ug/L	0.020		1	08/06/21 11:38	08/07/21 03:31	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	08/06/21 11:38	08/07/21 03:31		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	08/10/21 13:42	08/12/21 02:24	375-73-5	
Perfluoroheptanoic acid	**26.3**	ng/L	1.8		1	08/10/21 13:42	08/12/21 02:24	375-85-9	
Perfluorohexanesulfonic acid	**2.1**	ng/L	1.8		1	08/10/21 13:42	08/12/21 02:24	355-46-4	
Perfluorononanoic acid	**2.3**	ng/L	1.8		1	08/10/21 13:42	08/12/21 02:24	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 02:24	1763-23-1	
Perfluorooctanoic acid	**9.2**	ng/L	1.8	10	1	08/10/21 13:42	08/12/21 02:24	335-67-1	
Surrogates									
13C2-PFDA (S)	119	%	70-130		1	08/10/21 13:42	08/12/21 02:24		
13C2-PFHxA (S)	120	%	70-130		1	08/10/21 13:42	08/12/21 02:24		
HFPO-DAS (S)	120	%	70-130		1	08/10/21 13:42	08/12/21 02:24		

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

QC Batch: 220811
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70182527001, 70182527002, 70182527003, 70182527004, 70182527005, 70182527006, 70182527007, 70182527008, 70182527009, 70182527010

METHOD BLANK: 1113279
Matrix: Drinking Water
Associated Lab Samples: 70182527001, 70182527002, 70182527003, 70182527004, 70182527005, 70182527006, 70182527007, 70182527008, 70182527009, 70182527010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	08/06/21 21:53	
1,4-Dioxane-d8 (S)	%	96	70-130	08/06/21 21:53	

LABORATORY CONTROL SAMPLE: 1113280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4	4.1	102	70-130	E
1,4-Dioxane-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1113281

Parameter	Units	70182494002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	10.2	4	14.6	109	70-130	E
1,4-Dioxane-d8 (S)	%				94	70-130	

SAMPLE DUPLICATE: 1113282

Parameter	Units	70182499001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	1.1	1.1	0	20	
1,4-Dioxane-d8 (S)	%	96	95		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

QC Batch: 752565
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70182527001, 70182527002, 70182527003, 70182527004, 70182527005, 70182527006

METHOD BLANK: 4110013
Matrix: Water
Associated Lab Samples: 70182527001, 70182527002, 70182527003, 70182527004, 70182527005, 70182527006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	08/12/21 12:42	
Perfluoroheptanoic acid	ng/L	ND	2.0	08/12/21 12:42	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	08/12/21 12:42	
Perfluorononanoic acid	ng/L	ND	2.0	08/12/21 12:42	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	08/12/21 12:42	
Perfluorooctanoic acid	ng/L	ND	2.0	08/12/21 12:42	
13C2-PFDA (S)	%	126	70-130	08/12/21 12:42	
13C2-PFHxA (S)	%	126	70-130	08/12/21 12:42	
HFPO-DAS (S)	%	125	70-130	08/12/21 12:42	
NEtFOSAA-d5 (S)	%	120	70-130	08/12/21 12:42	

LABORATORY CONTROL SAMPLE: 4110014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	142	154	109	70-130	
Perfluoroheptanoic acid	ng/L	160	173	108	70-130	
Perfluorohexanesulfonic acid	ng/L	146	160	110	70-130	
Perfluorononanoic acid	ng/L	160	177	111	70-130	
Perfluorooctanesulfonic acid	ng/L	148	160	108	70-130	
Perfluorooctanoic acid	ng/L	160	170	106	70-130	
13C2-PFDA (S)	%			121	70-130	
13C2-PFHxA (S)	%			120	70-130	
HFPO-DAS (S)	%			121	70-130	
NEtFOSAA-d5 (S)	%			118	70-130	

LABORATORY CONTROL SAMPLE: 4110015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.9J	110	50-150	
Perfluoroheptanoic acid	ng/L	2	2.2	110	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	ND	109	50-150	
Perfluorononanoic acid	ng/L	2	2.2	109	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	2.2	116	50-150	
Perfluorooctanoic acid	ng/L	2	2.1	105	50-150	
13C2-PFDA (S)	%			125	70-130	
13C2-PFHxA (S)	%			125	70-130	
HFPO-DAS (S)	%			125	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

LABORATORY CONTROL SAMPLE: 4110015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			120	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4110016 4110017

Parameter	Units	5274394007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Perfluorobutanesulfonic acid	ng/L	ND	1.6	1.6	5.5	5.4	91	87	70-130	1	30	
Perfluoroheptanoic acid	ng/L	ND	1.8	1.8	2.9	3.1	105	116	70-130	6	30	
Perfluorohexanesulfonic acid	ng/L	19.3	1.7	1.7	20.8	20.2	88	54	70-130	3	30	M1
Perfluorononanoic acid	ng/L	ND	1.8	1.8	2.1	2.2	98	102	70-130	4	30	
Perfluorooctanesulfonic acid	ng/L	12.7	1.7	1.7	14.5	15.1	107	142	70-130	4	30	M1
Perfluorooctanoic acid	ng/L	ND	1.8	1.8	6.2	5.9	108	89	70-130	6	30	
13C2-PFDA (S)	%						99	104	70-130			
13C2-PFHxA (S)	%						102	104	70-130			
HFPO-DAS (S)	%						102	106	70-130			
NEtFOSAA-d5 (S)	%						92	92	70-130			

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

QC Batch: 752567
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70182527007, 70182527008, 70182527009, 70182527010

METHOD BLANK: 4110026
Matrix: Water
Associated Lab Samples: 70182527007, 70182527008, 70182527009, 70182527010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	08/11/21 21:39	
Perfluoroheptanoic acid	ng/L	ND	2.0	08/11/21 21:39	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	08/11/21 21:39	
Perfluorononanoic acid	ng/L	ND	2.0	08/11/21 21:39	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	08/11/21 21:39	
Perfluorooctanoic acid	ng/L	ND	2.0	08/11/21 21:39	
13C2-PFDA (S)	%	103	70-130	08/11/21 21:39	
13C2-PFHxA (S)	%	107	70-130	08/11/21 21:39	
HFPO-DAS (S)	%	106	70-130	08/11/21 21:39	
NEtFOSAA-d5 (S)	%	102	70-130	08/11/21 21:39	

LABORATORY CONTROL SAMPLE: 4110027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	6.9	97	70-130	
Perfluoroheptanoic acid	ng/L	8	8.0	100	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.3	101	70-130	
Perfluorononanoic acid	ng/L	8	8.2	102	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	7.7	104	70-130	
Perfluorooctanoic acid	ng/L	8	8.0	101	70-130	
13C2-PFDA (S)	%			106	70-130	
13C2-PFHxA (S)	%			107	70-130	
HFPO-DAS (S)	%			104	70-130	
NEtFOSAA-d5 (S)	%			103	70-130	

LABORATORY CONTROL SAMPLE: 4110028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.8J	100	50-150	
Perfluoroheptanoic acid	ng/L	2	2.0	100	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.9J	105	50-150	
Perfluorononanoic acid	ng/L	2	ND	97	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.9J	102	50-150	
Perfluorooctanoic acid	ng/L	2	2.0	102	50-150	
13C2-PFDA (S)	%			107	70-130	
13C2-PFHxA (S)	%			109	70-130	
HFPO-DAS (S)	%			107	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

LABORATORY CONTROL SAMPLE: 4110028

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

MATRIX SPIKE SAMPLE: 4110029

Parameter	Units	70182535005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.0	6.9	6.7	95	70-130	
Perfluoroheptanoic acid	ng/L	2.4	7.8	10.1	99	70-130	
Perfluorohexanesulfonic acid	ng/L	<2.0	7.1	7.1	97	70-130	
Perfluorononanoic acid	ng/L	<2.0	7.8	8.1	98	70-130	
Perfluorooctanesulfonic acid	ng/L	<2.0	7.2	7.2	98	70-130	
Perfluorooctanoic acid	ng/L	<2.0	7.8	9.3	96	70-130	
13C2-PFDA (S)	%				100	70-130	
13C2-PFHxA (S)	%				102	70-130	
HFPO-DAS (S)	%				98	70-130	
NEtFOSAA-d5 (S)	%				94	70-130	

SAMPLE DUPLICATE: 4110030

Parameter	Units	70182535006 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.0	<1.9		30	
Perfluoroheptanoic acid	ng/L	2.0	2.0	0	30	
Perfluorohexanesulfonic acid	ng/L	<2.0	<1.9		30	
Perfluorononanoic acid	ng/L	<2.0	<1.9		30	
Perfluorooctanesulfonic acid	ng/L	<2.0	<1.9		30	
Perfluorooctanoic acid	ng/L	2.3	2.3	1	30	
13C2-PFDA (S)	%	106	106			
13C2-PFHxA (S)	%	109	108			
HFPO-DAS (S)	%	105	104			
NEtFOSAA-d5 (S)	%	102	103			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

QUALIFIERS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

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: 70182527

[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: 70182527001

[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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182527

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70182527001	**N-00198**	EPA 522	220811	EPA 522	220905
70182527002	**N-12734**	EPA 522	220811	EPA 522	220905
70182527003	**N-08043**	EPA 522	220811	EPA 522	220905
70182527004	**N-06092**	EPA 522	220811	EPA 522	220905
70182527005	**N-06093**	EPA 522	220811	EPA 522	220905
70182527006	**N-10149**	EPA 522	220811	EPA 522	220905
70182527007	**N-12795**	EPA 522	220811	EPA 522	220905
70182527008	**N-07593**	EPA 522	220811	EPA 522	220905
70182527009	**N-07772**	EPA 522	220811	EPA 522	220905
70182527010	**N-07773**	EPA 522	220811	EPA 522	220905
70182527001	**N-00198**	EPA 537.1	752565	EPA 537.1	752936
70182527002	**N-12734**	EPA 537.1	752565	EPA 537.1	752936
70182527003	**N-08043**	EPA 537.1	752565	EPA 537.1	752936
70182527004	**N-06092**	EPA 537.1	752565	EPA 537.1	752936
70182527005	**N-06093**	EPA 537.1	752565	EPA 537.1	752936
70182527006	**N-10149**	EPA 537.1	752565	EPA 537.1	752936
70182527007	**N-12795**	EPA 537.1	752567	EPA 537.1	752938
70182527008	**N-07593**	EPA 537.1	752567	EPA 537.1	752938
70182527009	**N-07772**	EPA 537.1	752567	EPA 537.1	752938
70182527010	**N-07773**	EPA 537.1	752567	EPA 537.1	752938

WO#: 70182527

70182527

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 8/2/21

Collected By: CS

Accepted By: Noanne Saager

Cooler Temp: 14.1 °C (B) 13:02

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water

Address: 125 Convent Rd
Syosset, NY 11791

Phone #: (516) 921-8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
8/2/21 8:26 am	PW	Well 3 H-00198	RW		RO			1,4 Dioxane	
8/2/21 8:40 Am	PW	Well 4 H-12734	RW		RO				
8/2/21 12:05 pm	PW	Well 23 H-08043	RW		RO				
8/2/21 11:52 Am	PW	Well 12 H-06092	RW		RO				
8/2/21 11:45 Am	PW	Well 13 H-06093	RW		RO				
8/2/21 9:23 Am	PW	Well 20 H-10145	RW		RO				
8/2/21 9:32 Am	PW	Well 21 H-12795	RW		RO				
8/2/21 9:10 Am	PW	Well 17 H-07593	RW		RO				
8/2/21 10:40 Am	PW	Well 18 H-07772	RW		RO				
8/2/21 10:55 Am	PW	Well 19 H-07773	RW		RO				

Remarks:

Pace Analytical®
www.pacelabs.com
575 Broad Hollow Rd., Melville, NY 11747
(631) 694-3040 Fax: (631) 420-8436

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 8/2/21
Collected By: CS
Accepted By: Lorraine Sagger
Cooler Temp: 14.1 °C (B) 13:02

☐ WELL OFF LINE
☑ WELL RUN TO SYSTEM
☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:
Name or Code: Jericho Water
Address: 125 Convent Rd
Syosset, NY 11791
Phone #: (516) 921-8280
Attn:
Proj. # or (Name):
Bill To:
Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
8/2/21 8:26am.	PW	Well 3 H-00195	RW		RO			PFOS / PFOA	
8/2/21 8:40am	PW	Well 4 H-12734	RW		RO				
8/2/21 12:05pm	PW	Well 23 H-08043	RW		RO				
8/2/21 11:52am	PW	Well 12 H-06092	RW		RO				
8/2/21 11:40am	PW	Well 13 H-06093	RW		RO				
8/2/21 9:23am	PW	Well 20 H-10149	RW		RO				
8/2/21 9:32am	PW	Well 21 H-12795	RW		RO				
8/2/21 9:10am	PW	Well 17 - H-07593	RW		RO				
8/2/21 10:40am	PW	Well 18 H-07772	RW		RO				
8/2/21 10:55am	PW	Well 19 H-07773	RW		RO				

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70182527
PM: JSA **Due Date: 08/12/21**
CLIENT: JWD

Client Name: Jericho Water

Project

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

Tracking #:

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

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

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 14.1 Cooler Temperature Corrected(°C): 14.1

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet Blue None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: CH 8/2/21

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix: SL (W) OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

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

September 10, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on August 02, 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
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

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

CERTIFICATIONS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

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

SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70182535001	**N-08713**	Drinking Water	08/02/21 08:55	08/02/21 14:13
70182535002	**N-14003**	Drinking Water	08/02/21 09:10	08/02/21 14:13
70182535003	**N-05201**	Drinking Water	08/02/21 09:38	08/02/21 14:13
70182535004	**N-11295**	Drinking Water	08/02/21 10:55	08/02/21 14:13
70182535005	**N-11107**	Drinking Water	08/02/21 11:07	08/02/21 14:13
70182535006	**N-07781**	Drinking Water	08/02/21 11:18	08/02/21 14:13
70182535007	**N-04245**	Drinking Water	08/02/21 11:33	08/02/21 14:13
70182535008	**N-08355**	Drinking Water	08/02/21 12:38	08/02/21 14:13
70182535009	**N-13119**	Drinking Water	08/02/21 12:55	08/02/21 14:13

Pace Analytical Services, LLC
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Melville, NY 11747
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SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70182535001	**N-08713**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70182535002	**N-14003**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70182535003	**N-05201**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70182535004	**N-11295**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70182535005	**N-11107**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70182535006	**N-07781**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70182535007	**N-04245**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70182535008	**N-08355**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70182535009	**N-13119**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O

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

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Sample: N-08713 **Lab ID: 70182535001** Collected: 08/02/21 08:55 Received: 08/02/21 14:13 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)	**0.34**	ug/L	0.020		1	08/06/21 11:38	08/07/21 03:47	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	08/06/21 11:38	08/07/21 03:47		
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	08/10/21 13:42	08/11/21 22:25	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 22:25	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 22:25	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 22:25	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	08/10/21 13:42	08/11/21 22:25	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	08/10/21 13:42	08/11/21 22:25	335-67-1	
Surrogates									
13C2-PFDA (S)	106	%	70-130		1	08/10/21 13:42	08/11/21 22:25		
13C2-PFHxA (S)	109	%	70-130		1	08/10/21 13:42	08/11/21 22:25		
HFPO-DAS (S)	109	%	70-130		1	08/10/21 13:42	08/11/21 22:25		

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575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Sample: N-14003 **Lab ID: 70182535002** Collected: 08/02/21 09:10 Received: 08/02/21 14:13 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)	**0.14**	ug/L	0.020		1	08/06/21 11:38	08/07/21 04:04	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	08/06/21 11:38	08/07/21 04:04		
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	08/10/21 13:42	08/11/21 22:39	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 22:39	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 22:39	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 22:39	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	08/10/21 13:42	08/11/21 22:39	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	08/10/21 13:42	08/11/21 22:39	335-67-1	
Surrogates									
13C2-PFDA (S)	104	%	70-130		1	08/10/21 13:42	08/11/21 22:39		
13C2-PFHxA (S)	105	%	70-130		1	08/10/21 13:42	08/11/21 22:39		
HFPO-DAS (S)	105	%	70-130		1	08/10/21 13:42	08/11/21 22:39		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Sample: N-05201 **Lab ID: 70182535003** Collected: 08/02/21 09:38 Received: 08/02/21 14:13 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)	**<0.020**	ug/L	0.020		1	08/06/21 11:38	08/07/21 04:21	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	08/06/21 11:38	08/07/21 04:21		
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	08/10/21 13:42	08/11/21 22:54	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 22:54	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 22:54	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 22:54	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	08/10/21 13:42	08/11/21 22:54	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	08/10/21 13:42	08/11/21 22:54	335-67-1	
Surrogates									
13C2-PFDA (S)	114	%	70-130		1	08/10/21 13:42	08/11/21 22:54		
13C2-PFHxA (S)	115	%	70-130		1	08/10/21 13:42	08/11/21 22:54		
HFPO-DAS (S)	113	%	70-130		1	08/10/21 13:42	08/11/21 22:54		

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Sample: N-11295 **Lab ID: 70182535004** Collected: 08/02/21 10:55 Received: 08/02/21 14:13 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)	**0.059**	ug/L	0.020		1	08/06/21 11:38	08/07/21 04:38	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	08/06/21 11:38	08/07/21 04:38		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/11/21 23:09	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/11/21 23:09	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/11/21 23:09	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/11/21 23:09	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	08/10/21 13:42	08/11/21 23:09	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	08/10/21 13:42	08/11/21 23:09	335-67-1	
Surrogates									
13C2-PFDA (S)	101	%	70-130		1	08/10/21 13:42	08/11/21 23:09		
13C2-PFHxA (S)	106	%	70-130		1	08/10/21 13:42	08/11/21 23:09		
HFPO-DAS (S)	104	%	70-130		1	08/10/21 13:42	08/11/21 23:09		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Sample: N-11107 **Lab ID: 70182535005** Collected: 08/02/21 11:07 Received: 08/02/21 14:13 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)	**0.14**	ug/L	0.020		1	08/06/21 11:38	08/07/21 04:55	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	08/06/21 11:38	08/07/21 04:55		
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	08/10/21 13:42	08/11/21 23:24	375-73-5	
Perfluoroheptanoic acid	**2.4**	ng/L	2.0		1	08/10/21 13:42	08/11/21 23:24	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 23:24	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 23:24	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	08/10/21 13:42	08/11/21 23:24	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	08/10/21 13:42	08/11/21 23:24	335-67-1	
Surrogates									
13C2-PFDA (S)	107	%	70-130		1	08/10/21 13:42	08/11/21 23:24		
13C2-PFHxA (S)	107	%	70-130		1	08/10/21 13:42	08/11/21 23:24		
NEtFOSAA-d5 (S)	104	%	70-130		1	08/10/21 13:42	08/11/21 23:24		
HFPO-DAS (S)	103	%	70-130		1	08/10/21 13:42	08/11/21 23:24		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Sample: N-07781 **Lab ID: 70182535006** Collected: 08/02/21 11:18 Received: 08/02/21 14:13 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)	**0.54**	ug/L	0.020		1	08/07/21 10:08	08/09/21 16:11	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	08/07/21 10:08	08/09/21 16:11		
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	08/10/21 13:42	08/11/21 23:54	375-73-5	
Perfluoroheptanoic acid	**2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 23:54	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 23:54	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/11/21 23:54	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	08/10/21 13:42	08/11/21 23:54	1763-23-1	
Perfluorooctanoic acid	**2.3**	ng/L	2.0	10	1	08/10/21 13:42	08/11/21 23:54	335-67-1	
Surrogates									
13C2-PFDA (S)	106	%	70-130		1	08/10/21 13:42	08/11/21 23:54		
13C2-PFHxA (S)	109	%	70-130		1	08/10/21 13:42	08/11/21 23:54		
NEtFOSAA-d5 (S)	102	%	70-130		1	08/10/21 13:42	08/11/21 23:54		
HFPO-DAS (S)	105	%	70-130		1	08/10/21 13:42	08/11/21 23:54		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Sample: N-04245 **Lab ID: 70182535007** Collected: 08/02/21 11:33 Received: 08/02/21 14:13 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)	**2.0**	ug/L	0.020		1	08/07/21 10:08	08/09/21 16:45	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	99	%	70-130		1	08/07/21 10:08	08/09/21 16:45		
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	08/10/21 13:42	08/12/21 00:24	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/12/21 00:24	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/12/21 00:24	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	08/10/21 13:42	08/12/21 00:24	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	08/10/21 13:42	08/12/21 00:24	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	08/10/21 13:42	08/12/21 00:24	335-67-1	
Surrogates									
13C2-PFDA (S)	104	%	70-130		1	08/10/21 13:42	08/12/21 00:24		
13C2-PFHxA (S)	107	%	70-130		1	08/10/21 13:42	08/12/21 00:24		
HFPO-DAS (S)	103	%	70-130		1	08/10/21 13:42	08/12/21 00:24		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Sample: N-08355 **Lab ID: 70182535008** Collected: 08/02/21 12:38 Received: 08/02/21 14:13 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)	**8.9**	ug/L	0.10		5	08/07/21 10:08	08/10/21 12:35	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		5	08/07/21 10:08	08/10/21 12:35		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/12/21 00:39	375-73-5	
Perfluoroheptanoic acid	**5.9**	ng/L	1.9		1	08/10/21 13:42	08/12/21 00:39	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/12/21 00:39	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/12/21 00:39	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	08/10/21 13:42	08/12/21 00:39	1763-23-1	
Perfluorooctanoic acid	**4.3**	ng/L	1.9	10	1	08/10/21 13:42	08/12/21 00:39	335-67-1	
Surrogates									
13C2-PFDA (S)	107	%	70-130		1	08/10/21 13:42	08/12/21 00:39		
13C2-PFHxA (S)	107	%	70-130		1	08/10/21 13:42	08/12/21 00:39		
HFPO-DAS (S)	102	%	70-130		1	08/10/21 13:42	08/12/21 00:39		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Sample: N-13119 **Lab ID: 70182535009** Collected: 08/02/21 12:55 Received: 08/02/21 14:13 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)	**2.7**	ug/L	0.020		1	08/07/21 10:08	08/09/21 17:37	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		1	08/07/21 10:08	08/09/21 17:37		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/12/21 00:54	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/12/21 00:54	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/12/21 00:54	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	08/10/21 13:42	08/12/21 00:54	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	08/10/21 13:42	08/12/21 00:54	1763-23-1	
Perfluorooctanoic acid	**2.2**	ng/L	1.9	10	1	08/10/21 13:42	08/12/21 00:54	335-67-1	
Surrogates									
13C2-PFDA (S)	102	%	70-130		1	08/10/21 13:42	08/12/21 00:54		
13C2-PFHxA (S)	103	%	70-130		1	08/10/21 13:42	08/12/21 00:54		
HFPO-DAS (S)	102	%	70-130		1	08/10/21 13:42	08/12/21 00:54		

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

QC Batch: 220811
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70182535001, 70182535002, 70182535003, 70182535004, 70182535005

METHOD BLANK: 1113279
Matrix: Drinking Water
Associated Lab Samples: 70182535001, 70182535002, 70182535003, 70182535004, 70182535005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	08/06/21 21:53	
1,4-Dioxane-d8 (S)	%	96	70-130	08/06/21 21:53	

LABORATORY CONTROL SAMPLE: 1113280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4	4.1	102	70-130	E
1,4-Dioxane-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1113281

Parameter	Units	70182494002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	10.2	4	14.6	109	70-130	E
1,4-Dioxane-d8 (S)	%				94	70-130	

SAMPLE DUPLICATE: 1113282

Parameter	Units	70182499001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	1.1	1.1	0	20	
1,4-Dioxane-d8 (S)	%	96	95		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

QC Batch: 220954
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70182535006, 70182535007, 70182535008, 70182535009

METHOD BLANK: 1114082
Matrix: Drinking Water
Associated Lab Samples: 70182535006, 70182535007, 70182535008, 70182535009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	08/09/21 15:37	
1,4-Dioxane-d8 (S)	%	95	70-130	08/09/21 15:37	

LABORATORY CONTROL SAMPLE: 1114083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	<0.020	72	70-130	
1,4-Dioxane-d8 (S)	%			95	70-130	

MATRIX SPIKE SAMPLE: 1114084

Parameter	Units	70182535006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.54	0.02	0.56	93	70-130	
1,4-Dioxane-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 1114085

Parameter	Units	70182535007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2.0	2.0	1	20	
1,4-Dioxane-d8 (S)	%	99	98		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

QC Batch: 752567
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70182535001, 70182535002, 70182535003, 70182535004, 70182535005, 70182535006, 70182535007, 70182535008, 70182535009

METHOD BLANK: 4110026
Matrix: Water
Associated Lab Samples: 70182535001, 70182535002, 70182535003, 70182535004, 70182535005, 70182535006, 70182535007, 70182535008, 70182535009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	08/11/21 21:39	
Perfluoroheptanoic acid	ng/L	ND	2.0	08/11/21 21:39	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	08/11/21 21:39	
Perfluorononanoic acid	ng/L	ND	2.0	08/11/21 21:39	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	08/11/21 21:39	
Perfluorooctanoic acid	ng/L	ND	2.0	08/11/21 21:39	
13C2-PFDA (S)	%	103	70-130	08/11/21 21:39	
13C2-PFHxA (S)	%	107	70-130	08/11/21 21:39	
HFPO-DAS (S)	%	106	70-130	08/11/21 21:39	
NEtFOSAA-d5 (S)	%	102	70-130	08/11/21 21:39	

LABORATORY CONTROL SAMPLE: 4110027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	6.9	97	70-130	
Perfluoroheptanoic acid	ng/L	8	8.0	100	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.3	101	70-130	
Perfluorononanoic acid	ng/L	8	8.2	102	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	7.7	104	70-130	
Perfluorooctanoic acid	ng/L	8	8.0	101	70-130	
13C2-PFDA (S)	%			106	70-130	
13C2-PFHxA (S)	%			107	70-130	
HFPO-DAS (S)	%			104	70-130	
NEtFOSAA-d5 (S)	%			103	70-130	

LABORATORY CONTROL SAMPLE: 4110028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.8J	100	50-150	
Perfluoroheptanoic acid	ng/L	2	2.0	100	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.9J	105	50-150	
Perfluorononanoic acid	ng/L	2	ND	97	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.9J	102	50-150	
Perfluorooctanoic acid	ng/L	2	2.0	102	50-150	
13C2-PFDA (S)	%			107	70-130	
13C2-PFHxA (S)	%			109	70-130	

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

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

LABORATORY CONTROL SAMPLE: 4110028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
HFPO-DAS (S)	%			107	70-130	
NEtFOSAA-d5 (S)	%			106	70-130	

MATRIX SPIKE SAMPLE: 4110029

Parameter	Units	70182535005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.0	6.9	6.7	95	70-130	
Perfluoroheptanoic acid	ng/L	2.4	7.8	10.1	99	70-130	
Perfluorohexanesulfonic acid	ng/L	<2.0	7.1	7.1	97	70-130	
Perfluorononanoic acid	ng/L	<2.0	7.8	8.1	98	70-130	
Perfluorooctanesulfonic acid	ng/L	<2.0	7.2	7.2	98	70-130	
Perfluorooctanoic acid	ng/L	<2.0	7.8	9.3	96	70-130	
13C2-PFDA (S)	%				100	70-130	
13C2-PFHxA (S)	%				102	70-130	
HFPO-DAS (S)	%				98	70-130	
NEtFOSAA-d5 (S)	%				94	70-130	

SAMPLE DUPLICATE: 4110030

Parameter	Units	70182535006 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.0	<1.9		30	
Perfluoroheptanoic acid	ng/L	2.0	2.0	0	30	
Perfluorohexanesulfonic acid	ng/L	<2.0	<1.9		30	
Perfluorononanoic acid	ng/L	<2.0	<1.9		30	
Perfluorooctanesulfonic acid	ng/L	<2.0	<1.9		30	
Perfluorooctanoic acid	ng/L	2.3	2.3	1	30	
13C2-PFDA (S)	%	106	106			
13C2-PFHxA (S)	%	109	108			
HFPO-DAS (S)	%	105	104			
NEtFOSAA-d5 (S)	%	102	103			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 70182535

[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.

[2] REVISION 1: Report re-issued on 9/10/21 to update the 1,4 Dioxane results as there was a data entry error in the prep template.

SAMPLE QUALIFIERS

Sample: 70182535001

[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.

[2] REVISION 1: Report re-issued on 8/31/21 to update the 1,4 Dioxane results as there was a data entry error in the prep template.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS 8/2
Pace Project No.: 70182535

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70182535001	**N-08713**	EPA 522	220811	EPA 522	220905
70182535002	**N-14003**	EPA 522	220811	EPA 522	220905
70182535003	**N-05201**	EPA 522	220811	EPA 522	220905
70182535004	**N-11295**	EPA 522	220811	EPA 522	220905
70182535005	**N-11107**	EPA 522	220811	EPA 522	220905
70182535006	**N-07781**	EPA 522	220954	EPA 522	221049
70182535007	**N-04245**	EPA 522	220954	EPA 522	221049
70182535008	**N-08355**	EPA 522	220954	EPA 522	221049
70182535009	**N-13119**	EPA 522	220954	EPA 522	221049
70182535001	**N-08713**	EPA 537.1	752567	EPA 537.1	752938
70182535002	**N-14003**	EPA 537.1	752567	EPA 537.1	752938
70182535003	**N-05201**	EPA 537.1	752567	EPA 537.1	752938
70182535004	**N-11295**	EPA 537.1	752567	EPA 537.1	752938
70182535005	**N-11107**	EPA 537.1	752567	EPA 537.1	752938
70182535006	**N-07781**	EPA 537.1	752567	EPA 537.1	752938
70182535007	**N-04245**	EPA 537.1	752567	EPA 537.1	752938
70182535008	**N-08355**	EPA 537.1	752567	EPA 537.1	752938
70182535009	**N-13119**	EPA 537.1	752567	EPA 537.1	752938

WO#: 70182535

70182535

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 8-2-21

Collected By: TK

Accepted By: [illegible]

Cooler Temp: 13.6 °C 14.13 (B)

☐ WELL OFF LINE

☑ WELL RUN TO SYSTEM all wells

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water Dist.

Address: 125 Convent Rd Syosset N.Y 11791

Phone #: (516) 921-8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location		Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis		Lab No.
8-2-21 08:56	PW	well #27	N- 08713	RW		RO	Ø		1,4- Dioxane	PFOS/PFOA	
8-2-21 09:10	PW	well #28	N- 14003	RW		RO	Ø		"	"	
8-2-21 09:38	PW	well #11	N- 05201	RW		RO	Ø		"	"	
8-2-21 10:55	PW	well #30	N- 11295	RW		RO	Ø		"	"	
8-2-21 11:07	PW	well #29	N- 11107	RW		RO	Ø		"	"	
8-2-21 11:18	PW	well #22	N- 07781	RW		RO	Ø		"	"	
8-2-21 11:33	PW	well #9	N- 04245	~~TW~~ RW	AST	RO	.92		"	"	
8-2-21 12:38	PW	well #25	N- 08355	RW		RO	Ø		"	"	
8-2-21 12:55	PW	well #26	N- 13119	RW		RO	Ø		1,4- Dioxane	PFOS/PFOA	

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70182535
PM: JSA **Due Date: 08/12/21**
CLIENT: JWD

Client Name: Jericho WD

Project

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): 13.6 Cooler Temperature Corrected(°C): 13.6

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: KO 8/2/21

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix: SL WT OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked? pH paper Lot #	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐ Yes	☐ No	☑ N/A	Sample # Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐ Yes	☐ No	☑ N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot #	☐ Yes	☐ No	☑ N/A	15.
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

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

September 16, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on September 02, 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
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

Pace Analytical Services, LLC
575 Broad Hollow Road
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SAMPLE SUMMARY

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70186127001	**N-00198**	Drinking Water	09/02/21 08:30	09/02/21 12:07
70186127002	**N-12734**	Drinking Water	09/02/21 08:40	09/02/21 12:07
70186127003	**N-07772**	Drinking Water	09/02/21 10:03	09/02/21 12:07
70186127004	**N-07773**	Drinking Water	09/02/21 10:13	09/02/21 12:07
70186127005	**N-07593**	Drinking Water	09/02/21 10:30	09/02/21 12:07
70186127006	**N-10149**	Drinking Water	09/02/21 10:39	09/02/21 12:07
70186127007	**N-12795**	Drinking Water	09/02/21 10:45	09/02/21 12:07
70186127008	**N-06093**	Drinking Water	09/02/21 11:17	09/02/21 12:07
70186127009	**N-06092**	Drinking Water	09/02/21 11:30	09/02/21 12:07
70186127010	**N-08043**	Drinking Water	09/02/21 11:43	09/02/21 12:07

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SAMPLE ANALYTE COUNT

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70186127001	**N-00198**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70186127002	**N-12734**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70186127003	**N-07772**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70186127004	**N-07773**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70186127005	**N-07593**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70186127006	**N-10149**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70186127007	**N-12795**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70186127008	**N-06093**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70186127009	**N-06092**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70186127010	**N-08043**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O

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

Pace Analytical Services, LLC
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(631)694-3040

ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Sample: N-00198 **Lab ID: 70186127001** Collected: 09/02/21 08:30 Received: 09/02/21 12:07 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)	**0.59**	ug/L	0.020		1	09/09/21 11:17	09/10/21 03:21	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	100	%	70-130		1	09/09/21 11:17	09/10/21 03:21		
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	09/09/21 10:59	09/12/21 16:55	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 16:55	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 16:55	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 16:55	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 16:55	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 16:55	335-67-1	
Surrogates									
13C2-PFDA (S)	96	%	70-130		1	09/09/21 10:59	09/12/21 16:55		
13C2-PFHxA (S)	98	%	70-130		1	09/09/21 10:59	09/12/21 16:55		
HFPO-DAS (S)	99	%	70-130		1	09/09/21 10:59	09/12/21 16:55		

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

ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Sample: N-12734 **Lab ID: 70186127002** Collected: 09/02/21 08:40 Received: 09/02/21 12:07 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)	**0.32**	ug/L	0.020		1	09/10/21 08:47	09/10/21 15:25	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	102	%	70-130		1	09/10/21 08:47	09/10/21 15:25		
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	09/09/21 10:59	09/12/21 17:11	375-73-5	
Perfluoroheptanoic acid	**3.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 17:11	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 17:11	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 17:11	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 17:11	1763-23-1	
Perfluorooctanoic acid	**2.4**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 17:11	335-67-1	
Surrogates									
13C2-PFDA (S)	99	%	70-130		1	09/09/21 10:59	09/12/21 17:11		
13C2-PFHxA (S)	100	%	70-130		1	09/09/21 10:59	09/12/21 17:11		
HFPO-DAS (S)	98	%	70-130		1	09/09/21 10:59	09/12/21 17:11		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Sample: N-07772 **Lab ID: 70186127003** Collected: 09/02/21 10:03 Received: 09/02/21 12:07 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)	**0.25**	ug/L	0.020		1	09/10/21 08:47	09/10/21 15:59	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	101	%	70-130		1	09/10/21 08:47	09/10/21 15:59		
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	09/09/21 10:59	09/12/21 17:26	375-73-5	
Perfluoroheptanoic acid	**16.7**	ng/L	1.8		1	09/09/21 10:59	09/12/21 17:26	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 17:26	355-46-4	
Perfluorononanoic acid	**2.0**	ng/L	1.8		1	09/09/21 10:59	09/12/21 17:26	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 17:26	1763-23-1	
Perfluorooctanoic acid	**5.9**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 17:26	335-67-1	
Surrogates									
13C2-PFDA (S)	99	%	70-130		1	09/09/21 10:59	09/12/21 17:26		
13C2-PFHxA (S)	98	%	70-130		1	09/09/21 10:59	09/12/21 17:26		
HFPO-DAS (S)	100	%	70-130		1	09/09/21 10:59	09/12/21 17:26		

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

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Sample: N-07773 **Lab ID: 70186127004** Collected: 09/02/21 10:13 Received: 09/02/21 12:07 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)	**0.34**	ug/L	0.020		1	09/10/21 08:47	09/10/21 16:33	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	100	%	70-130		1	09/10/21 08:47	09/10/21 16:33		
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	09/09/21 10:59	09/12/21 17:42	375-73-5	
Perfluoroheptanoic acid	**12.5**	ng/L	1.8		1	09/09/21 10:59	09/12/21 17:42	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 17:42	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 17:42	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 17:42	1763-23-1	
Perfluorooctanoic acid	**3.7**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 17:42	335-67-1	
Surrogates									
13C2-PFDA (S)	97	%	70-130		1	09/09/21 10:59	09/12/21 17:42		
13C2-PFHxA (S)	96	%	70-130		1	09/09/21 10:59	09/12/21 17:42		
HFPO-DAS (S)	94	%	70-130		1	09/09/21 10:59	09/12/21 17:42		

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

ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Sample: N-07593 **Lab ID: 70186127005** Collected: 09/02/21 10:30 Received: 09/02/21 12:07 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)	**0.16**	ug/L	0.020		1	09/10/21 08:47	09/10/21 16:50	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	102	%	70-130		1	09/10/21 08:47	09/10/21 16:50		
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	09/09/21 10:59	09/12/21 17:58	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 17:58	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 17:58	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 17:58	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 17:58	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 17:58	335-67-1	
Surrogates									
13C2-PFDA (S)	96	%	70-130		1	09/09/21 10:59	09/12/21 17:58		
13C2-PFHxA (S)	98	%	70-130		1	09/09/21 10:59	09/12/21 17:58		
HFPO-DAS (S)	96	%	70-130		1	09/09/21 10:59	09/12/21 17:58		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Sample: N-10149 **Lab ID: 70186127006** Collected: 09/02/21 10:39 Received: 09/02/21 12:07 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)	**1.1**	ug/L	0.020		1	09/10/21 08:47	09/10/21 17:08	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	101	%	70-130		1	09/10/21 08:47	09/10/21 17:08		
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	09/09/21 10:59	09/12/21 18:13	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	09/09/21 10:59	09/12/21 18:13	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	09/09/21 10:59	09/12/21 18:13	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	09/09/21 10:59	09/12/21 18:13	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	09/09/21 10:59	09/12/21 18:13	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	09/09/21 10:59	09/12/21 18:13	335-67-1	
Surrogates									
13C2-PFDA (S)	92	%	70-130		1	09/09/21 10:59	09/12/21 18:13		
13C2-PFHxA (S)	90	%	70-130		1	09/09/21 10:59	09/12/21 18:13		
HFPO-DAS (S)	90	%	70-130		1	09/09/21 10:59	09/12/21 18:13		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Sample: N-12795 **Lab ID: 70186127007** Collected: 09/02/21 10:45 Received: 09/02/21 12:07 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)	**0.47**	ug/L	0.020		1	09/10/21 08:47	09/10/21 17:41	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	102	%	70-130		1	09/10/21 08:47	09/10/21 17:41		
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	09/09/21 10:59	09/12/21 18:29	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	09/09/21 10:59	09/12/21 18:29	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	09/09/21 10:59	09/12/21 18:29	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	09/09/21 10:59	09/12/21 18:29	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	09/09/21 10:59	09/12/21 18:29	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	09/09/21 10:59	09/12/21 18:29	335-67-1	
Surrogates									
13C2-PFDA (S)	92	%	70-130		1	09/09/21 10:59	09/12/21 18:29		
13C2-PFHxA (S)	90	%	70-130		1	09/09/21 10:59	09/12/21 18:29		
HFPO-DAS (S)	90	%	70-130		1	09/09/21 10:59	09/12/21 18:29		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Sample: N-06093 **Lab ID: 70186127008** Collected: 09/02/21 11:17 Received: 09/02/21 12:07 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)	**0.14**	ug/L	0.020		1	09/10/21 08:47	09/10/21 17:58	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	103	%	70-130		1	09/10/21 08:47	09/10/21 17:58		
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	09/14/21 11:55	09/15/21 23:42	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	09/14/21 11:55	09/15/21 23:42	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	09/14/21 11:55	09/15/21 23:42	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	09/14/21 11:55	09/15/21 23:42	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	09/14/21 11:55	09/15/21 23:42	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	09/14/21 11:55	09/15/21 23:42	335-67-1	
Surrogates									
13C2-PFDA (S)	103	%	70-130		1	09/14/21 11:55	09/15/21 23:42		
13C2-PFHxA (S)	106	%	70-130		1	09/14/21 11:55	09/15/21 23:42		
HFPO-DAS (S)	103	%	70-130		1	09/14/21 11:55	09/15/21 23:42		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Sample: N-06092 **Lab ID: 70186127009** Collected: 09/02/21 11:30 Received: 09/02/21 12:07 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)	**0.078**	ug/L	0.020		1	09/10/21 08:47	09/10/21 18:15	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	101	%	70-130		1	09/10/21 08:47	09/10/21 18:15		
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	09/14/21 11:55	09/15/21 23:58	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	09/14/21 11:55	09/15/21 23:58	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	09/14/21 11:55	09/15/21 23:58	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	09/14/21 11:55	09/15/21 23:58	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	09/14/21 11:55	09/15/21 23:58	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	09/14/21 11:55	09/15/21 23:58	335-67-1	
Surrogates									
13C2-PFDA (S)	99	%	70-130		1	09/14/21 11:55	09/15/21 23:58		
13C2-PFHxA (S)	103	%	70-130		1	09/14/21 11:55	09/15/21 23:58		
HFPO-DAS (S)	100	%	70-130		1	09/14/21 11:55	09/15/21 23:58		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Sample: N-08043 **Lab ID: 70186127010** Collected: 09/02/21 11:43 Received: 09/02/21 12:07 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)	**0.17**	ug/L	0.020		1	09/10/21 08:47	09/10/21 18:32	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		1	09/10/21 08:47	09/10/21 18:32		
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	09/14/21 11:55	09/16/21 00:14	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	09/14/21 11:55	09/16/21 00:14	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/14/21 11:55	09/16/21 00:14	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/14/21 11:55	09/16/21 00:14	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/14/21 11:55	09/16/21 00:14	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	09/14/21 11:55	09/16/21 00:14	335-67-1	
Surrogates									
13C2-PFDA (S)	94	%	70-130		1	09/14/21 11:55	09/16/21 00:14		
13C2-PFHxA (S)	98	%	70-130		1	09/14/21 11:55	09/16/21 00:14		
HFPO-DAS (S)	89	%	70-130		1	09/14/21 11:55	09/16/21 00:14		

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

QC Batch: 224776
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70186127001

METHOD BLANK: 1133158
Matrix: Drinking Water
Associated Lab Samples: 70186127001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	09/09/21 20:14	
1,4-Dioxane-d8 (S)	%	100	70-130	09/09/21 20:14	

LABORATORY CONTROL SAMPLE: 1133159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	<0.020	80	70-130	
1,4-Dioxane-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1133160

Parameter	Units	70186071004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.02	<0.020	65	70-130	M1
1,4-Dioxane-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1133161

Parameter	Units	70186071005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	100	101		20	

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

QC Batch: 224955
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70186127002, 70186127003, 70186127004, 70186127005, 70186127006, 70186127007, 70186127008, 70186127009, 70186127010

METHOD BLANK: 1134067
Matrix: Drinking Water
Associated Lab Samples: 70186127002, 70186127003, 70186127004, 70186127005, 70186127006, 70186127007, 70186127008, 70186127009, 70186127010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	09/10/21 14:51	
1,4-Dioxane-d8 (S)	%	101	70-130	09/10/21 14:51	

LABORATORY CONTROL SAMPLE: 1134068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	2.0	101	70-130	
1,4-Dioxane-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1134069

Parameter	Units	70186127002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.32	2	2.3	100	70-130	
1,4-Dioxane-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1134070

Parameter	Units	70186127003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.25	0.27	6	20	
1,4-Dioxane-d8 (S)	%	101	102		20	

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

QC Batch: 760300
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70186127001, 70186127002, 70186127003, 70186127004, 70186127005, 70186127006, 70186127007

METHOD BLANK: 4155427
Matrix: Water
Associated Lab Samples: 70186127001, 70186127002, 70186127003, 70186127004, 70186127005, 70186127006, 70186127007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	09/10/21 18:14	
Perfluoroheptanoic acid	ng/L	ND	2.0	09/10/21 18:14	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	09/10/21 18:14	
Perfluorononanoic acid	ng/L	ND	2.0	09/10/21 18:14	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	09/10/21 18:14	
Perfluorooctanoic acid	ng/L	ND	2.0	09/10/21 18:14	
13C2-PFDA (S)	%	104	70-130	09/10/21 18:14	
13C2-PFHxA (S)	%	117	70-130	09/10/21 18:14	
HFPO-DAS (S)	%	95	70-130	09/10/21 18:14	
NEtFOSAA-d5 (S)	%	110	70-130	09/10/21 18:14	

LABORATORY CONTROL SAMPLE: 4155428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	6.7	95	70-130	
Perfluoroheptanoic acid	ng/L	8	7.3	92	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.1	97	70-130	
Perfluorononanoic acid	ng/L	8	7.6	95	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	7.2	97	70-130	
Perfluorooctanoic acid	ng/L	8	7.3	91	70-130	
13C2-PFDA (S)	%			108	70-130	
13C2-PFHxA (S)	%			106	70-130	
HFPO-DAS (S)	%			100	70-130	
NEtFOSAA-d5 (S)	%			102	70-130	

LABORATORY CONTROL SAMPLE: 4155429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.7J	96	50-150	
Perfluoroheptanoic acid	ng/L	2	1.9J	93	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.8J	99	50-150	
Perfluorononanoic acid	ng/L	2	ND	96	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.8J	97	50-150	
Perfluorooctanoic acid	ng/L	2	1.8J	92	50-150	
13C2-PFDA (S)	%			106	70-130	
13C2-PFHxA (S)	%			105	70-130	
HFPO-DAS (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

LABORATORY CONTROL SAMPLE: 4155429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			103	70-130	

MATRIX SPIKE SAMPLE: 4155430

Parameter	Units	70186171001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	1.7	<1.9	96	70-130	
Perfluoroheptanoic acid	ng/L	<1.8	1.9	<1.9	87	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.8	1.8	<1.9	97	70-130	
Perfluorononanoic acid	ng/L	<1.8	1.9	<1.9	92	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.8	1.8	<1.9	99	70-130	
Perfluorooctanoic acid	ng/L	<1.8	1.9	<1.9	91	70-130	
13C2-PFDA (S)	%				108	70-130	
13C2-PFHxA (S)	%				106	70-130	
HFPO-DAS (S)	%				102	70-130	
NEtFOSAA-d5 (S)	%				102	70-130	

SAMPLE DUPLICATE: 4155431

Parameter	Units	70186171002 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	<2.1		30	
Perfluoroheptanoic acid	ng/L	<1.9	<2.1		30	
Perfluorohexanesulfonic acid	ng/L	<1.9	<2.1		30	
Perfluorononanoic acid	ng/L	<1.9	<2.1		30	
Perfluorooctanesulfonic acid	ng/L	<1.9	<2.1		30	
Perfluorooctanoic acid	ng/L	<1.9	<2.1		30	
13C2-PFDA (S)	%	106	105			
13C2-PFHxA (S)	%	103	103			
HFPO-DAS (S)	%	98	97			
NEtFOSAA-d5 (S)	%	99	101			

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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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

QC Batch: 761463
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70186127008, 70186127009, 70186127010

METHOD BLANK: 4162050 Matrix: Water
Associated Lab Samples: 70186127008, 70186127009, 70186127010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	09/15/21 21:53	
Perfluoroheptanoic acid	ng/L	ND	2.0	09/15/21 21:53	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	09/15/21 21:53	
Perfluorononanoic acid	ng/L	ND	2.0	09/15/21 21:53	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	09/15/21 21:53	
Perfluorooctanoic acid	ng/L	ND	2.0	09/15/21 21:53	
13C2-PFDA (S)	%	95	70-130	09/15/21 21:53	
13C2-PFHxA (S)	%	98	70-130	09/15/21 21:53	
HFPO-DAS (S)	%	96	70-130	09/15/21 21:53	
NEtFOSAA-d5 (S)	%	93	70-130	09/15/21 21:53	

LABORATORY CONTROL SAMPLE: 4162051

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	6.2	88	70-130	
Perfluoroheptanoic acid	ng/L	8	6.7	84	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	6.7	92	70-130	
Perfluorononanoic acid	ng/L	8	6.6	82	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	6.9	93	70-130	
Perfluorooctanoic acid	ng/L	8	6.0	76	70-130	
13C2-PFDA (S)	%			88	70-130	
13C2-PFHxA (S)	%			90	70-130	
HFPO-DAS (S)	%			88	70-130	
NEtFOSAA-d5 (S)	%			87	70-130	

LABORATORY CONTROL SAMPLE: 4162052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.6J	90	50-150	
Perfluoroheptanoic acid	ng/L	2	1.6J	81	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.7J	93	50-150	
Perfluorononanoic acid	ng/L	2	ND	86	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.9J	103	50-150	
Perfluorooctanoic acid	ng/L	2	1.6J	80	50-150	
13C2-PFDA (S)	%			86	70-130	
13C2-PFHxA (S)	%			89	70-130	
HFPO-DAS (S)	%			83	70-130	

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

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

QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

LABORATORY CONTROL SAMPLE: 4162052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			87	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4162053 4162054

Parameter	Units	35661852001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Perfluorobutanesulfonic acid	ng/L	ND	7.1	7.1	19.1	19.2	270	272	70-130	1	30	M1
Perfluoroheptanoic acid	ng/L	ND	8	8	27.7	27.6	347	345	70-130	1	30	M1
Perfluorohexanesulfonic acid	ng/L	ND	7.3	7.3	11.1	11.0	153	152	70-130	1	30	M1
Perfluorononanoic acid	ng/L	ND	8	8	9.2	9.1	114	113	70-130	1	30	
Perfluorooctanesulfonic acid	ng/L	ND	7.4	7.4	30.7	31.4	414	424	70-130	2	30	M1
Perfluorooctanoic acid	ng/L	ND	8	8	33.0	33.0	412	412	70-130	0	30	M1
13C2-PFDA (S)	%						96	95	70-130			
13C2-PFHxA (S)	%						101	101	70-130			
HFPO-DAS (S)	%						97	95	70-130			
NEtFOSAA-d5 (S)	%						95	100	70-130			

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

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Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 70186127

[1] Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

SAMPLE QUALIFIERS

Sample: 70186127001

[1] Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PFAS/1,4 DIOXANE 9/2
Pace Project No.: 70186127

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70186127001	**N-00198**	EPA 522	224776	EPA 522	224952
70186127002	**N-12734**	EPA 522	224955	EPA 522	225098
70186127003	**N-07772**	EPA 522	224955	EPA 522	225098
70186127004	**N-07773**	EPA 522	224955	EPA 522	225098
70186127005	**N-07593**	EPA 522	224955	EPA 522	225098
70186127006	**N-10149**	EPA 522	224955	EPA 522	225098
70186127007	**N-12795**	EPA 522	224955	EPA 522	225098
70186127008	**N-06093**	EPA 522	224955	EPA 522	225098
70186127009	**N-06092**	EPA 522	224955	EPA 522	225098
70186127010	**N-08043**	EPA 522	224955	EPA 522	225098
70186127001	**N-00198**	EPA 537.1	760300	EPA 537.1	760730
70186127002	**N-12734**	EPA 537.1	760300	EPA 537.1	760730
70186127003	**N-07772**	EPA 537.1	760300	EPA 537.1	760730
70186127004	**N-07773**	EPA 537.1	760300	EPA 537.1	760730
70186127005	**N-07593**	EPA 537.1	760300	EPA 537.1	760730
70186127006	**N-10149**	EPA 537.1	760300	EPA 537.1	760730
70186127007	**N-12795**	EPA 537.1	760300	EPA 537.1	760730
70186127008	**N-06093**	EPA 537.1	761463	EPA 537.1	761891
70186127009	**N-06092**	EPA 537.1	761463	EPA 537.1	761891
70186127010	**N-08043**	EPA 537.1	761463	EPA 537.1	761891

WO#: 70186127

70186127

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 9-2-21 9/2/21

Collected By: JH 12:07

Accepted By: (B)

Cooler Temp: 16.9 °C

☐ WELL OFF LINE

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho water

Address: 125 Comet Rd Syosset NY 11791

Phone #:

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
9-2-21 8:30	RW	N-00198 well 3	RW		RO			PFOS/PFOA	
8:40		N-12734 well 4							
10:05		N-07772 well 18							
10:13		N-07773 well 19							
10:30		N-07593 well 17							
10:39		N-10149 well 20							
10:45		N-12795 well 21							
11:17		N-06093 well 13							
11:30		N-06092 well 12							
11:43		N-08043 well 23							

Remarks:

Pace Analytical®
www.pacelabs.com
575 Broad Hollow Rd., Melville, NY 11747
(631) 694-3040 Fax: (631) 420-8436

Sample Request Form 9/2/21
PUBLIC WATER SUPPLIER

12:07

Date: 9-2-21
Collected By: JM
Accepted By: [illegible]
Cooler Temp: 16.9 °C

(B)

☐ WELL OFF LINE
☑ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:
Name or Code: Jericho water
Address: 125 Convent Rd
Syosset NY 11791
Phone #:
Attn:
Proj. # or (Name):
Bill To:
Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
9-2-21 8:30	PW	N-00198 Well 3	Raw		RO			1,4 Dioxane	
8:40		N-12734 Well 4							
10:05		N-07772 Well 18							
10:13		N-07773 Well 19							
10:30		N-07593 Well 17							
10:39		N-10149 Well 20							
10:45		N-12795 Well 21							
11:17		N-06093 Well 13							
11:30		N-06092 Well 12							
11:45		N-08043 Well 23							

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70186127
PM: JSA **Due Date: 09/15/21**
CLIENT: JWD

Client Name: Jericho Water

Projec

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): 16.9 Cooler Temperature Corrected(°C): 16.9

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: CH 9/2/21

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL (WT) OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Field Data Required? Y / N

Client Notification/ Resolution: Date/Time:

Person Contacted:

Comments/ Resolution:

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

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

September 13, 2021

Peter Logan
Jericho Water District
125 Convent Rd.
Syosset, NY 11791

RE: Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on September 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
Stephen Laun, D&B Engineers and Architects
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers
Joe Todaro, H2M Group
Reports User, Jericho Water District
Jim Vanhorn, D & B Engineers

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

CERTIFICATIONS

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

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

SAMPLE SUMMARY

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70186069001	**N-14003**	Drinking Water	09/01/21 09:20	09/01/21 12:56
70186069002	**N-08713**	Drinking Water	09/01/21 09:35	09/01/21 12:56
70186069003	**N-05201**	Drinking Water	09/01/21 09:52	09/01/21 12:56
70186069004	**N-11295**	Drinking Water	09/01/21 10:30	09/01/21 12:56
70186069005	**N-11107**	Drinking Water	09/01/21 10:20	09/01/21 12:56
70186069006	**N-08355**	Drinking Water	09/01/21 10:45	09/01/21 12:56
70186069007	**N-13119**	Drinking Water	09/01/21 10:52	09/01/21 12:56
70186069008	**N-07781**	Drinking Water	09/01/21 11:07	09/01/21 12:56
70186069009	**N-04245**	Drinking Water	09/01/21 11:33	09/01/21 12:56
70186069010	**N-06651**	Drinking Water	09/01/21 12:00	09/01/21 12:56

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

SAMPLE ANALYTE COUNT

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70186069001	**N-14003**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70186069002	**N-08713**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70186069003	**N-05201**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70186069004	**N-11295**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70186069005	**N-11107**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70186069006	**N-08355**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70186069007	**N-13119**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70186069008	**N-07781**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70186069009	**N-04245**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O
70186069010	**N-06651**	EPA 522	JMD	2	PACE-MV
		EPA 537.1	CMB	9	PASI-O

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

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

ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Sample: N-14003 **Lab ID: 70186069001** Collected: 09/01/21 09:20 Received: 09/01/21 12:56 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)	**0.16**	ug/L	0.020		1	09/09/21 08:12	09/09/21 15:05	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	101	%	70-130		1	09/09/21 08:12	09/09/21 15:05		
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	09/07/21 10:45	09/09/21 04:28	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 04:28	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 04:28	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 04:28	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/07/21 10:45	09/09/21 04:28	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	09/07/21 10:45	09/09/21 04:28	335-67-1	
Surrogates									
13C2-PFDA (S)	121	%	70-130		1	09/07/21 10:45	09/09/21 04:28		
13C2-PFHxA (S)	112	%	70-130		1	09/07/21 10:45	09/09/21 04:28		
HFPO-DAS (S)	82	%	70-130		1	09/07/21 10:45	09/09/21 04:28		

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

ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Sample: N-08713 **Lab ID: 70186069002** Collected: 09/01/21 09:35 Received: 09/01/21 12:56 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)	**0.32**	ug/L	0.020		1	09/09/21 08:12	09/09/21 15:22	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	09/09/21 08:12	09/09/21 15:22		
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	09/07/21 10:45	09/09/21 04:47	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 04:47	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 04:47	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 04:47	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/07/21 10:45	09/09/21 04:47	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	09/07/21 10:45	09/09/21 04:47	335-67-1	
Surrogates									
13C2-PFDA (S)	115	%	70-130		1	09/07/21 10:45	09/09/21 04:47		
13C2-PFHxA (S)	108	%	70-130		1	09/07/21 10:45	09/09/21 04:47		
HFPO-DAS (S)	80	%	70-130		1	09/07/21 10:45	09/09/21 04:47		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Sample: N-05201 **Lab ID: 70186069003** Collected: 09/01/21 09:52 Received: 09/01/21 12:56 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)	**<0.020**	ug/L	0.020		1	09/09/21 08:12	09/09/21 15:57	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	09/09/21 08:12	09/09/21 15:57		
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	09/07/21 10:45	09/09/21 05:06	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	09/07/21 10:45	09/09/21 05:06	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	09/07/21 10:45	09/09/21 05:06	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	09/07/21 10:45	09/09/21 05:06	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	09/07/21 10:45	09/09/21 05:06	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	09/07/21 10:45	09/09/21 05:06	335-67-1	
Surrogates									
13C2-PFDA (S)	113	%	70-130		1	09/07/21 10:45	09/09/21 05:06		
13C2-PFHxA (S)	108	%	70-130		1	09/07/21 10:45	09/09/21 05:06		
HFPO-DAS (S)	83	%	70-130		1	09/07/21 10:45	09/09/21 05:06		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Sample: N-11295 **Lab ID: 70186069004** Collected: 09/01/21 10:30 Received: 09/01/21 12:56 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)	**0.066**	ug/L	0.020		1	09/09/21 08:12	09/09/21 16:14	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		1	09/09/21 08:12	09/09/21 16:14		
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	09/07/21 10:45	09/09/21 05:44	375-73-5	
Perfluoroheptanoic acid	**2.1**	ng/L	1.8		1	09/07/21 10:45	09/09/21 05:44	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 05:44	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 05:44	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/07/21 10:45	09/09/21 05:44	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	09/07/21 10:45	09/09/21 05:44	335-67-1	
Surrogates									
13C2-PFDA (S)	118	%	70-130		1	09/07/21 10:45	09/09/21 05:44		
13C2-PFHxA (S)	107	%	70-130		1	09/07/21 10:45	09/09/21 05:44		
HFPO-DAS (S)	81	%	70-130		1	09/07/21 10:45	09/09/21 05:44		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Sample: N-11107 **Lab ID: 70186069005** Collected: 09/01/21 10:20 Received: 09/01/21 12:56 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)	**0.16**	ug/L	0.020		1	09/09/21 08:12	09/09/21 16:31	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	09/09/21 08:12	09/09/21 16:31		
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	09/07/21 10:45	09/09/21 05:25	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 05:25	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 05:25	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 05:25	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/07/21 10:45	09/09/21 05:25	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	09/07/21 10:45	09/09/21 05:25	335-67-1	
Surrogates									
13C2-PFDA (S)	116	%	70-130		1	09/07/21 10:45	09/09/21 05:25		
13C2-PFHxA (S)	108	%	70-130		1	09/07/21 10:45	09/09/21 05:25		
HFPO-DAS (S)	82	%	70-130		1	09/07/21 10:45	09/09/21 05:25		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Sample: N-08355 **Lab ID: 70186069006** Collected: 09/01/21 10:45 Received: 09/01/21 12:56 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)	**8.7**	ug/L	0.10		5	09/09/21 08:12	09/10/21 12:27	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		5	09/09/21 08:12	09/10/21 12:27		
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	09/07/21 10:45	09/09/21 06:03	375-73-5	
Perfluoroheptanoic acid	**5.6**	ng/L	1.8		1	09/07/21 10:45	09/09/21 06:03	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 06:03	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 06:03	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/07/21 10:45	09/09/21 06:03	1763-23-1	
Perfluorooctanoic acid	**3.4**	ng/L	1.8	10	1	09/07/21 10:45	09/09/21 06:03	335-67-1	
Surrogates									
13C2-PFDA (S)	119	%	70-130		1	09/07/21 10:45	09/09/21 06:03		
13C2-PFHxA (S)	113	%	70-130		1	09/07/21 10:45	09/09/21 06:03		
HFPO-DAS (S)	87	%	70-130		1	09/07/21 10:45	09/09/21 06:03		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Sample: N-13119 **Lab ID: 70186069007** Collected: 09/01/21 10:52 Received: 09/01/21 12:56 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)	**3.0**	ug/L	0.020		1	09/09/21 08:12	09/09/21 17:05	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	09/09/21 08:12	09/09/21 17:05		
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	09/07/21 10:45	09/09/21 06:22	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 06:22	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 06:22	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/07/21 10:45	09/09/21 06:22	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/07/21 10:45	09/09/21 06:22	1763-23-1	
Perfluorooctanoic acid	**1.9**	ng/L	1.8	10	1	09/07/21 10:45	09/09/21 06:22	335-67-1	
Surrogates									
13C2-PFDA (S)	113	%	70-130		1	09/07/21 10:45	09/09/21 06:22		
13C2-PFHxA (S)	108	%	70-130		1	09/07/21 10:45	09/09/21 06:22		
HFPO-DAS (S)	84	%	70-130		1	09/07/21 10:45	09/09/21 06:22		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Sample: N-07781 **Lab ID: 70186069008** Collected: 09/01/21 11:07 Received: 09/01/21 12:56 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)	**0.55**	ug/L	0.020		1	09/09/21 08:12	09/09/21 17:22	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	97	%	70-130		1	09/09/21 08:12	09/09/21 17:22		
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	09/09/21 10:59	09/12/21 20:18	375-73-5	
Perfluoroheptanoic acid	**1.9**	ng/L	1.8		1	09/09/21 10:59	09/12/21 20:18	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 20:18	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 20:18	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 20:18	1763-23-1	
Perfluorooctanoic acid	**2.0**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 20:18	335-67-1	
Surrogates									
13C2-PFDA (S)	93	%	70-130		1	09/09/21 10:59	09/12/21 20:18		
13C2-PFHxA (S)	93	%	70-130		1	09/09/21 10:59	09/12/21 20:18		
HFPO-DAS (S)	92	%	70-130		1	09/09/21 10:59	09/12/21 20:18		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Sample: N-04245 **Lab ID: 70186069009** Collected: 09/01/21 11:33 Received: 09/01/21 12:56 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)	**1.8**	ug/L	0.020		1	09/09/21 08:12	09/09/21 17:40	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	09/09/21 08:12	09/09/21 17:40		
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	09/09/21 10:59	09/12/21 20:34	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 20:34	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 20:34	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	09/09/21 10:59	09/12/21 20:34	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 20:34	1763-23-1	
Perfluorooctanoic acid	**1.9**	ng/L	1.8	10	1	09/09/21 10:59	09/12/21 20:34	335-67-1	
Surrogates									
13C2-PFDA (S)	92	%	70-130		1	09/09/21 10:59	09/12/21 20:34		
13C2-PFHxA (S)	93	%	70-130		1	09/09/21 10:59	09/12/21 20:34		
HFPO-DAS (S)	91	%	70-130		1	09/09/21 10:59	09/12/21 20:34		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Sample: N-06651 **Lab ID: 70186069010** Collected: 09/01/21 12:00 Received: 09/01/21 12:56 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)	**3.3**	ug/L	0.020		1	09/09/21 08:12	09/09/21 17:57	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	96	%	70-130		1	09/09/21 08:12	09/09/21 17:57		
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	09/09/21 10:59	09/10/21 20:03	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	09/09/21 10:59	09/10/21 20:03	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	09/09/21 10:59	09/10/21 20:03	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	09/09/21 10:59	09/10/21 20:03	375-95-1	
Perfluorooctanesulfonic acid	**3.1**	ng/L	1.9	10	1	09/09/21 10:59	09/10/21 20:03	1763-23-1	
Perfluorooctanoic acid	**2.5**	ng/L	1.9	10	1	09/09/21 10:59	09/10/21 20:03	335-67-1	
Surrogates									
13C2-PFDA (S)	106	%	70-130		1	09/09/21 10:59	09/10/21 20:03		
13C2-PFHxA (S)	105	%	70-130		1	09/09/21 10:59	09/10/21 20:03		
HFPO-DAS (S)	101	%	70-130		1	09/09/21 10:59	09/10/21 20:03		

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

QC Batch: 224771
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70186069001, 70186069002, 70186069003, 70186069004, 70186069005, 70186069006, 70186069007, 70186069008, 70186069009, 70186069010

METHOD BLANK: 1133113
Matrix: Drinking Water
Associated Lab Samples: 70186069001, 70186069002, 70186069003, 70186069004, 70186069005, 70186069006, 70186069007, 70186069008, 70186069009, 70186069010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	09/09/21 12:49	
1,4-Dioxane-d8 (S)	%	99	70-130	09/09/21 12:49	

LABORATORY CONTROL SAMPLE: 1133114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4	3.9	98	70-130	
1,4-Dioxane-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1133115

Parameter	Units	70186062001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.037	4	3.9	96	70-130	
1,4-Dioxane-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 1133116

Parameter	Units	70186062003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.024	0.020	15	20	
1,4-Dioxane-d8 (S)	%	95	98		20	

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: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

QC Batch: 759652
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70186069001, 70186069002, 70186069003, 70186069004, 70186069005, 70186069006, 70186069007

METHOD BLANK: 4151450
Matrix: Water
Associated Lab Samples: 70186069001, 70186069002, 70186069003, 70186069004, 70186069005, 70186069006, 70186069007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	09/08/21 22:25	
Perfluoroheptanoic acid	ng/L	ND	2.0	09/08/21 22:25	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	09/08/21 22:25	
Perfluorononanoic acid	ng/L	ND	2.0	09/08/21 22:25	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	09/08/21 22:25	
Perfluorooctanoic acid	ng/L	ND	2.0	09/08/21 22:25	
13C2-PFDA (S)	%	112	70-130	09/08/21 22:25	
13C2-PFHxA (S)	%	101	70-130	09/08/21 22:25	
HFPO-DAS (S)	%	83	70-130	09/08/21 22:25	
NEtFOSAA-d5 (S)	%	116	70-130	09/08/21 22:25	

LABORATORY CONTROL SAMPLE: 4151451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	142	131	93	70-130	
Perfluoroheptanoic acid	ng/L	160	128	80	70-130	
Perfluorohexanesulfonic acid	ng/L	146	143	98	70-130	
Perfluorononanoic acid	ng/L	160	152	95	70-130	
Perfluorooctanesulfonic acid	ng/L	148	141	95	70-130	
Perfluorooctanoic acid	ng/L	160	146	91	70-130	
13C2-PFDA (S)	%			94	70-130	
13C2-PFHxA (S)	%			84	70-130	
HFPO-DAS (S)	%			85	70-130	
NEtFOSAA-d5 (S)	%			99	70-130	

LABORATORY CONTROL SAMPLE: 4151452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.5J	84	50-150	
Perfluoroheptanoic acid	ng/L	2	1.9J	96	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.7J	92	50-150	
Perfluorononanoic acid	ng/L	2	ND	86	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.5J	80	50-150	
Perfluorooctanoic acid	ng/L	2	1.8J	90	50-150	
13C2-PFDA (S)	%			113	70-130	
13C2-PFHxA (S)	%			109	70-130	
HFPO-DAS (S)	%			89	70-130	

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

QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

LABORATORY CONTROL SAMPLE: 4151452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			113	70-130	

MATRIX SPIKE SAMPLE: 4151453

Parameter	Units	70185445002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	1.7	<1.9	72	70-130	
Perfluoroheptanoic acid	ng/L	<1.9	1.9	<1.9	86	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	1.7	<1.9	79	70-130	
Perfluorononanoic acid	ng/L	<1.9	1.9	<1.9	80	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.9	1.8	<1.9	56	70-130	M1
Perfluorooctanoic acid	ng/L	<1.9	1.9	<1.9	80	70-130	
13C2-PFDA (S)	%				121	70-130	
13C2-PFHxA (S)	%				122	70-130	
HFPO-DAS (S)	%				101	70-130	
NEtFOSAA-d5 (S)	%				115	70-130	

SAMPLE DUPLICATE: 4151454

Parameter	Units	70185445004 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)	%	119	119			
13C2-PFHxA (S)	%	115	112			
HFPO-DAS (S)	%	90	93			
NEtFOSAA-d5 (S)	%	117	115			

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

QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

QC Batch: 760298
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70186069008, 70186069009

METHOD BLANK: 4155422
Matrix: Water
Associated Lab Samples: 70186069008, 70186069009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	09/12/21 19:16	
Perfluoroheptanoic acid	ng/L	ND	2.0	09/12/21 19:16	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	09/12/21 19:16	
Perfluorononanoic acid	ng/L	ND	2.0	09/12/21 19:16	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	09/12/21 19:16	
Perfluorooctanoic acid	ng/L	ND	2.0	09/12/21 19:16	
13C2-PFDA (S)	%	89	70-130	09/12/21 19:16	
13C2-PFHxA (S)	%	89	70-130	09/12/21 19:16	
HFPO-DAS (S)	%	89	70-130	09/12/21 19:16	
NEtFOSAA-d5 (S)	%	85	70-130	09/12/21 19:16	

LABORATORY CONTROL SAMPLE: 4155423

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	142	134	95	70-130	
Perfluoroheptanoic acid	ng/L	160	151	94	70-130	
Perfluorohexanesulfonic acid	ng/L	146	137	94	70-130	
Perfluorononanoic acid	ng/L	160	151	94	70-130	
Perfluorooctanesulfonic acid	ng/L	148	142	96	70-130	
Perfluorooctanoic acid	ng/L	160	147	92	70-130	
13C2-PFDA (S)	%			94	70-130	
13C2-PFHxA (S)	%			95	70-130	
HFPO-DAS (S)	%			96	70-130	
NEtFOSAA-d5 (S)	%			89	70-130	

LABORATORY CONTROL SAMPLE: 4155424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.5J	87	50-150	
Perfluoroheptanoic acid	ng/L	2	1.7J	83	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.5J	85	50-150	
Perfluorononanoic acid	ng/L	2	ND	85	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.7J	90	50-150	
Perfluorooctanoic acid	ng/L	2	1.7J	85	50-150	
13C2-PFDA (S)	%			95	70-130	
13C2-PFHxA (S)	%			93	70-130	
HFPO-DAS (S)	%			93	70-130	

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

QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

LABORATORY CONTROL SAMPLE: 4155424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			90	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4155425 4155426

Parameter	Units	5277019001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Perfluorobutanesulfonic acid	ng/L	ND	137	129	150	134	107	100	70-130	12	30	
Perfluoroheptanoic acid	ng/L	ND	154	146	169	149	108	101	70-130	13	30	
Perfluorohexanesulfonic acid	ng/L	21.2	141	133	181	162	114	106	70-130	11	30	
Perfluorononanoic acid	ng/L	ND	154	146	169	149	109	102	70-130	12	30	
Perfluorooctanesulfonic acid	ng/L	14.0	143	135	174	156	112	105	70-130	11	30	
Perfluorooctanoic acid	ng/L	6.8	154	146	173	154	107	101	70-130	11	30	
13C2-PFDA (S)	%						109	105	70-130			
13C2-PFHxA (S)	%						110	108	70-130			
HFPO-DAS (S)	%						110	108	70-130			
NEtFOSAA-d5 (S)	%						105	102	70-130			

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Pace Analytical Services, LLC
575 Broad Hollow Road
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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

QC Batch: 760300
QC Batch Method: EPA 537.1
Analysis Method: EPA 537.1
Analysis Description: 537.1 PFOA Compounds, Water
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 70186069010

METHOD BLANK: 4155427
Matrix: Water
Associated Lab Samples: 70186069010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	09/10/21 18:14	
Perfluoroheptanoic acid	ng/L	ND	2.0	09/10/21 18:14	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	09/10/21 18:14	
Perfluorononanoic acid	ng/L	ND	2.0	09/10/21 18:14	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	09/10/21 18:14	
Perfluorooctanoic acid	ng/L	ND	2.0	09/10/21 18:14	
13C2-PFDA (S)	%	104	70-130	09/10/21 18:14	
13C2-PFHxA (S)	%	117	70-130	09/10/21 18:14	
HFPO-DAS (S)	%	95	70-130	09/10/21 18:14	
NEtFOSAA-d5 (S)	%	110	70-130	09/10/21 18:14	

LABORATORY CONTROL SAMPLE: 4155428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	6.7	95	70-130	
Perfluoroheptanoic acid	ng/L	8	7.3	92	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.1	97	70-130	
Perfluorononanoic acid	ng/L	8	7.6	95	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	7.2	97	70-130	
Perfluorooctanoic acid	ng/L	8	7.3	91	70-130	
13C2-PFDA (S)	%			108	70-130	
13C2-PFHxA (S)	%			106	70-130	
HFPO-DAS (S)	%			100	70-130	
NEtFOSAA-d5 (S)	%			102	70-130	

LABORATORY CONTROL SAMPLE: 4155429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.7J	96	50-150	
Perfluoroheptanoic acid	ng/L	2	1.9J	93	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.8J	99	50-150	
Perfluorononanoic acid	ng/L	2	ND	96	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.8J	97	50-150	
Perfluorooctanoic acid	ng/L	2	1.8J	92	50-150	
13C2-PFDA (S)	%			106	70-130	
13C2-PFHxA (S)	%			105	70-130	
HFPO-DAS (S)	%			99	70-130	

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

QUALITY CONTROL DATA

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

LABORATORY CONTROL SAMPLE: 4155429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			103	70-130	

MATRIX SPIKE SAMPLE: 4155430

Parameter	Units	70186171001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	1.7	<1.9	96	70-130	
Perfluoroheptanoic acid	ng/L	<1.8	1.9	<1.9	87	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.8	1.8	<1.9	97	70-130	
Perfluorononanoic acid	ng/L	<1.8	1.9	<1.9	92	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.8	1.8	<1.9	99	70-130	
Perfluorooctanoic acid	ng/L	<1.8	1.9	<1.9	91	70-130	
13C2-PFDA (S)	%				108	70-130	
13C2-PFHxA (S)	%				106	70-130	
HFPO-DAS (S)	%				102	70-130	
NEtFOSAA-d5 (S)	%				102	70-130	

SAMPLE DUPLICATE: 4155431

Parameter	Units	70186171002 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	<2.1		30	
Perfluoroheptanoic acid	ng/L	<1.9	<2.1		30	
Perfluorohexanesulfonic acid	ng/L	<1.9	<2.1		30	
Perfluorononanoic acid	ng/L	<1.9	<2.1		30	
Perfluorooctanesulfonic acid	ng/L	<1.9	<2.1		30	
Perfluorooctanoic acid	ng/L	<1.9	<2.1		30	
13C2-PFDA (S)	%	106	105			
13C2-PFHxA (S)	%	103	103			
HFPO-DAS (S)	%	98	97			
NEtFOSAA-d5 (S)	%	99	101			

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

QUALIFIERS

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 70186069

[1] Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

SAMPLE QUALIFIERS

Sample: 70186069001

[1] Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.

Sample: 70186069010

[1] RUN TO WASTE

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PFAS/1,4 DIOXANE 9/1
Pace Project No.: 70186069

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70186069001	**N-14003**	EPA 522	224771	EPA 522	224923
70186069002	**N-08713**	EPA 522	224771	EPA 522	224923
70186069003	**N-05201**	EPA 522	224771	EPA 522	224923
70186069004	**N-11295**	EPA 522	224771	EPA 522	224923
70186069005	**N-11107**	EPA 522	224771	EPA 522	224923
70186069006	**N-08355**	EPA 522	224771	EPA 522	224923
70186069007	**N-13119**	EPA 522	224771	EPA 522	224923
70186069008	**N-07781**	EPA 522	224771	EPA 522	224923
70186069009	**N-04245**	EPA 522	224771	EPA 522	224923
70186069010	**N-06651**	EPA 522	224771	EPA 522	224923
70186069001	**N-14003**	EPA 537.1	759652	EPA 537.1	759945
70186069002	**N-08713**	EPA 537.1	759652	EPA 537.1	759945
70186069003	**N-05201**	EPA 537.1	759652	EPA 537.1	759945
70186069004	**N-11295**	EPA 537.1	759652	EPA 537.1	759945
70186069005	**N-11107**	EPA 537.1	759652	EPA 537.1	759945
70186069006	**N-08355**	EPA 537.1	759652	EPA 537.1	759945
70186069007	**N-13119**	EPA 537.1	759652	EPA 537.1	759945
70186069008	**N-07781**	EPA 537.1	760298	EPA 537.1	760729
70186069009	**N-04245**	EPA 537.1	760298	EPA 537.1	760729
70186069010	**N-06651**	EPA 537.1	760300	EPA 537.1	760730

WO#: 70186069

70186069

747

Sample Request Form
PUBLIC WATER SUPPLIER

9/1/21

12:56 (B)

Date: 9/1/21

Collected By: CS

Accepted By: [signature]

Cooler Temp: 10.3 °C

☐ WELL OFF LINE _____

☐ WELL RUN TO SYSTEM _____

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water

Address: 125 Convent Rd
Syosset, NY 11791

Phone #: (516)921-8280

Attn:

Proj. # or (Name):

Bill To:

Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
9/1/21 9:20am	PW	Well 28 N-14003	RW		RO			PFOS/PFOA	
9/1/21 9:35am	PW	Well 27-08713	RW		RO				
9/1/21 9:52am	PW	Well 11 N-05201	RW		RO				
9/1/21 10:30am	PW	Well 30-N-11295	RW		RO				
9/1/21 10:20am	PW	Well 29-N-11107	RW		RO				
9/1/21 10:45am	PW	Well 25-N-08355	RW		RO				
9/1/21 10:52am	PW	Well 26 N-13119	RW		RO				
9/1/21 11:07am	PW	Well 22-N-07781	RW		RO				
9/1/21 11:37am	PW	Well 9 N-04245	RW		RO				
9/1/21 12:00pm	PW	Run to waste Well 14 N-06651							

Remarks:

Pace Analytical®
www.pacelabs.com
575 Broad Hollow Rd., Melville, NY 11747
(631) 694-3040 Fax: (631) 420-8436

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 9/1/21 9/1/21 12:36
Collected By: CS
Accepted By: [signature] (B)
Cooler Temp: 10.2 °C

☐ WELL OFF LINE
☐ WELL RUN TO SYSTEM
☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:
Name or Code: Jericho Water
Address: 125 Convent Rd
Syosset, NY 11791
Phone #: (516) 921-8280
Attn:
Proj. # or (Name):
Bill To:
Copies To:

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
9/1/21 9:20 Am	PW	Well 28 H-14003	RW		RO			1,4 Dioxane	
9/1/21 9:35 Am	PW	Well 27 - H-08713	RW		RO				
9/1/21 9:52 Am	PW	Well 11 H-05201	RW		RO				
9/1/21 10:30 Am	PW	Well 30 H-11295	RW		RO				
9/1/21 10:20 Am	PW	Well 29 H-11107	RW		RO				
9/1/21 10:45 Am	PW	Well 25 H-08355	RW		RO				
9/1/21 10:52 Am	PW	Well 26 H-13119	RW		RO				
9/1/21 11:07 Am	PW	Well 22 H-07781	RW		RO				
9/1/21 11:33 Am	PW	Well 9 H-04245	RW		RO				
9/1/21 12:00 pm	PW	Ran to waste Well 14 H-06651	RW		RO			V	

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70186069
PM: JSA **Due Date: 09/14/21**
CLIENT: JWD

Client Name: Jewell Water

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): 10.3 Cooler Temperature Corrected(°C): 10.3

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: CH 9/14/21

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 orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix: SL WT OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked? pH paper Lot #	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐ Yes	☐ No	☑ N/A	Sample # Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐ Yes	☐ No	☑ N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot #	☐ Yes	☐ No	☑ N/A	15.
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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