April 7, 2021

Jericho Water District
PWS ID No. NY2902831
MCL Deferral for 1,4-dioxane
Quarterly Report – First 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. The 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 the 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 Wells 9 and 14 project is currently in the design phase. A Basis of Design Report (BODR) for the project was submitted for review by regulators in the first quarter of 2021. The BODR is still under review. Detailed design documents are expected to be complete and submitted to the Nassau County Department of Health (NCDH) and NYSDOH in the second quarter of 2021. This is slightly behind the original schedule due to the aggressive nature of the initial schedule. However, the project is still on schedule to have construction complete by the third quarter of 2022 before the expiration of the deferral.

Although it has been granted a deferral, the JWD has been able to avoid the usage of this well during the period of this report.

Wells 20 and 21

The District is currently in the process of preparing to perform a pilot study for the Wells 20 and 21 project. As detections of 1,4-dioxane are routinely at a higher concentration in Well 20 than Well 21, it is proposed to pilot only water from Well 20 as a more conservative approach for the entire site. Piloting cannot commence until Well 20 is returned to service upon completion of the installation of GAC treatment for Simazine removal, which is currently ongoing. Well 21

continues to operate to distribution. A pilot protocol is being developed and will be submitted to the Nassau County Department of Health (NCDH) and NYSDOH for approval prior to conducting a pilot of the proposed technology. The pilot testing is expected to be complete by the beginning of the third quarter of 2021. Because of this delay, the BODR will likely not be complete until the fourth quarter of 2021.

Although the pilot test and BODR have been delayed, 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.

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

The District is currently in the process of preparing to perform a pilot study for the Well 22 project. A pilot protocol was submitted to the NCDH and NYSDOH for approval last quarter and the District is currently waiting on approval of the protocol prior to commencing the pilot test. Well 22 is a seasonal well and was removed from service in the fourth quarter of 2020. Well 22 was returned to service to facilitate the collection of samples for the pilot study in the first quarter of 2021 and has since remained online. The pilot testing is expected to be complete by the end of the second quarter of 2021. Because of this delay, the BODR will likely not be complete until the third quarter of 2021.

However, although the pilot test and BODR have been delayed, 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.

Although it has been granted a deferral, the 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. The BODR and Pilot Study Report were finalized and submitted for regulatory review in the first quarter of 2021. Components of the detailed design for the facility are being advanced concurrently and it is expected that the completed project design will be submitted for regulatory review in the third quarter of 2021.The project is on schedule.

Although 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.

Public Notification

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

Analytical Sampling

Sample results for the wells for which deferrals were granted (Wells 9, 14, 20, 21, 22, 25, and 26) taken during the first 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		
	Jan. 2021	**Feb. 2021**	**Mar. 2021**
Well 9 (N-4245)*	NS	NS	NS
Well 14 (N-6651)*	NS	NS	2.0
Well 20 (N-10149)	0.30	0.26	NS
Well 21 (N-12795)	0.33	0.36	0.37
Well 22 (N-7781)	0.093	0.1	0.5
Well 25 (N-8355)	10.7	12.5	11.2
Well 26 (N-13119)	0.99	1.0	1.2

**Well out of service*
NS = Not sampled (because wells are not in service)

Conclusion

As demonstrated above, the 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

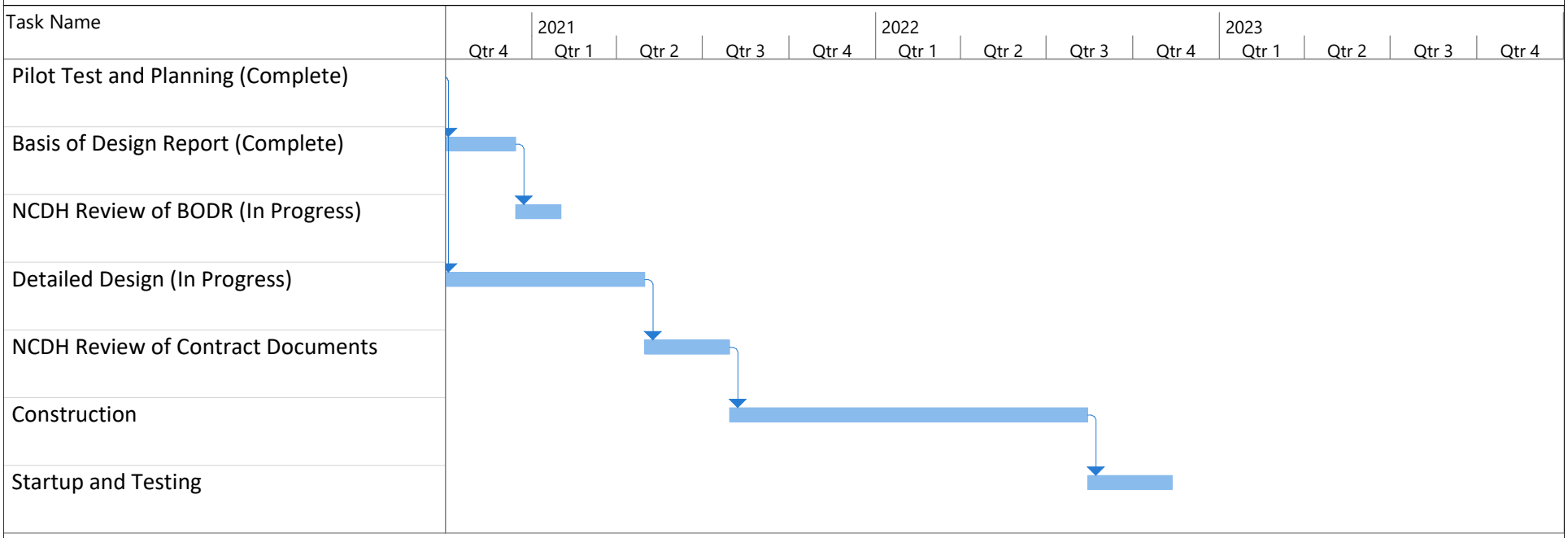
Enclosures
cc: K. Wheeler (NYSDOH)
B. Rogers (NYSDOH)
W. Provoncha (NCDH)
P. Young (NCDH)
R. Putnam (NCDH)
P. Logan (JWD)
B. Merklin (D&B)
M. Savarese (D&B)

ATTACHMENT A

Project Schedules Associated with MCL Deferral

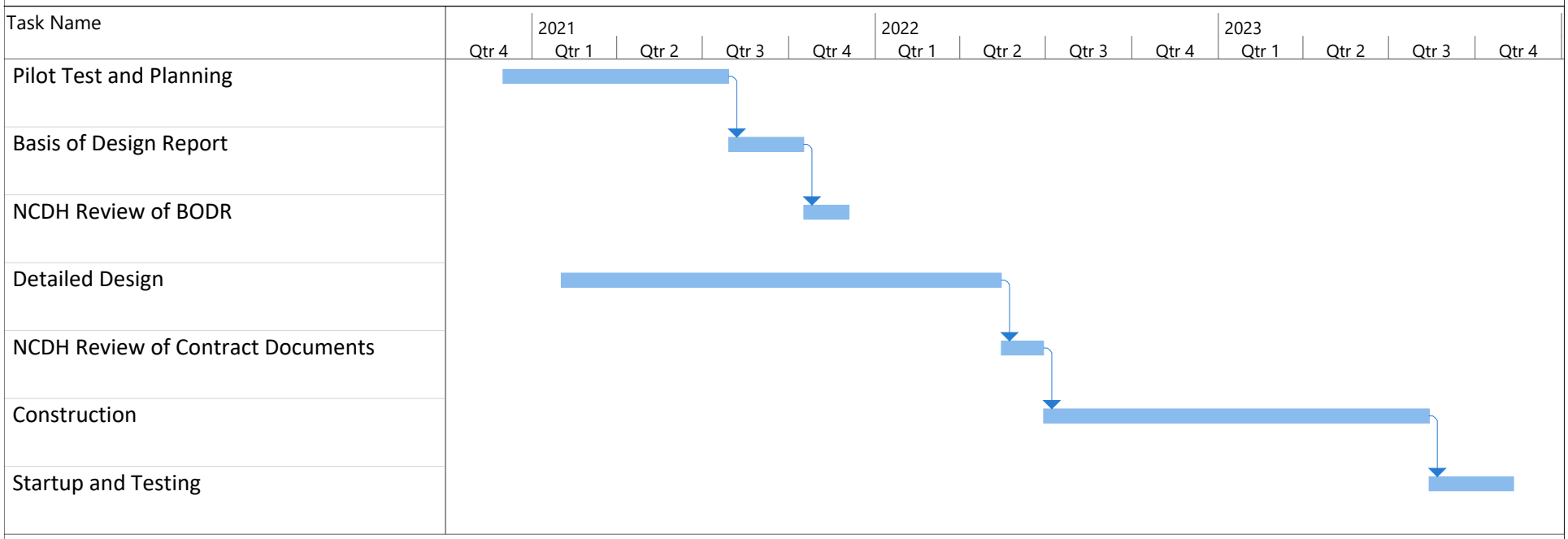
Jericho Water District
MCL Deferral Request
Quarterly Report

Wells 9 and 14
AOP Project Schedule



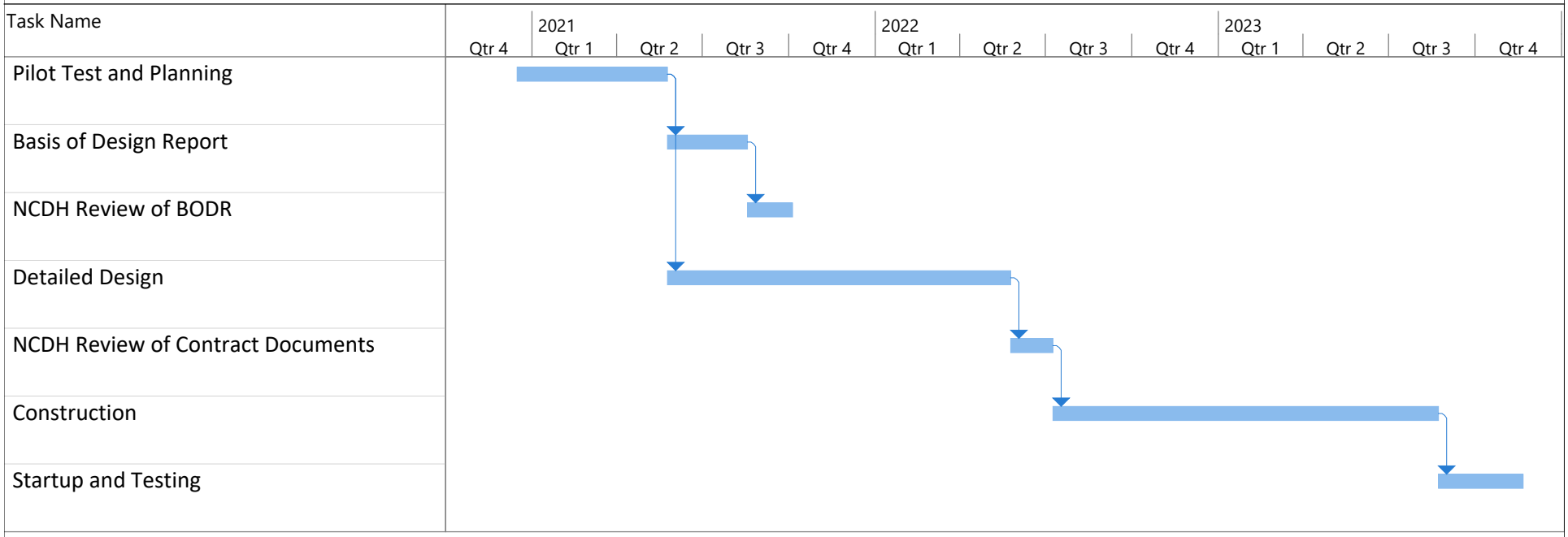
Jericho Water District
MCL Deferral Request
Quarterly Report

Wells 20 and 21
AOP Project Schedule



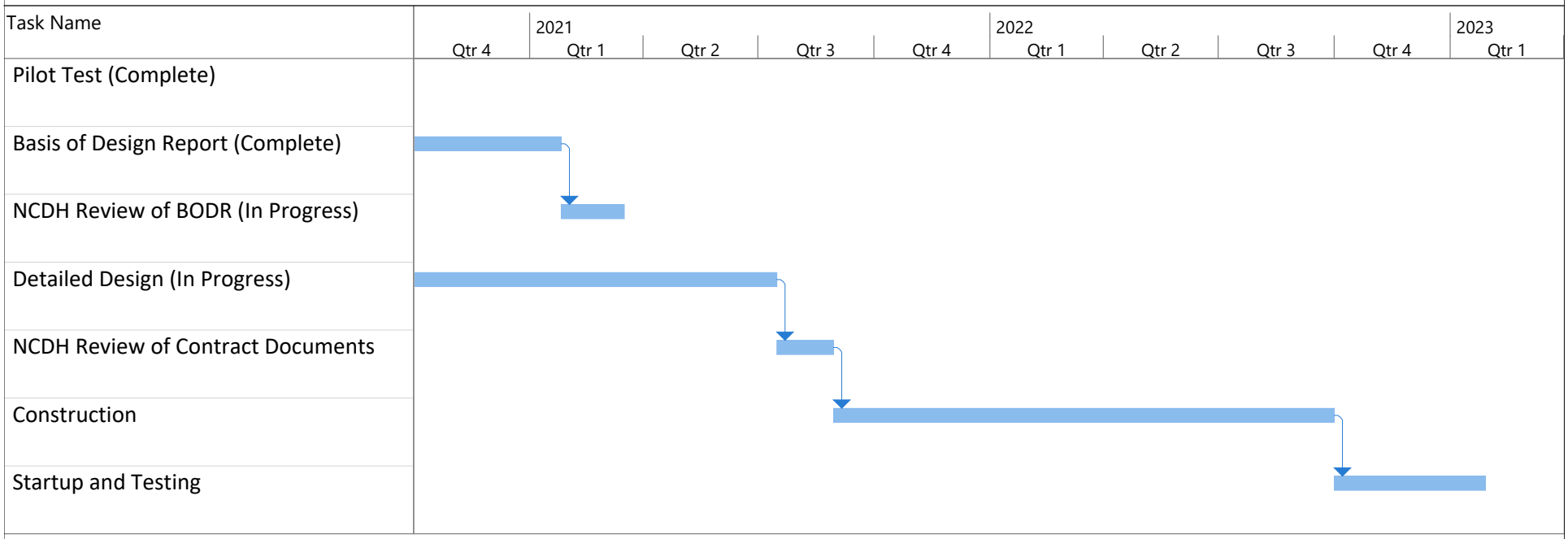
Jericho Water District
MCL Deferral Request
Quarterly Report

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

January 11, 2021

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

RE: Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158106

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on January 04, 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

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
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 1/4
Pace Project No.: 70158106

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

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

SAMPLE SUMMARY

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158106

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70158106001	**N-10149**	Drinking Water	01/04/21 09:45	01/04/21 13:18
70158106002	**N-12795**	Drinking Water	01/04/21 09:53	01/04/21 13:18
70158106003	**N-06092**	Drinking Water	01/04/21 10:27	01/04/21 13:18

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

SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158106

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70158106001	**N-10149**	EPA 522	TJD	2
70158106002	**N-12795**	EPA 522	TJD	2
70158106003	**N-06092**	EPA 522	TJD	2

PACE-MV = Pace Analytical Services - Melville

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158106

Sample: N-10149 **Lab ID: 70158106001** Collected: 01/04/21 09:45 Received: 01/04/21 13:18 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)	**0.30**	ug/L	0.020		1	01/07/21 09:30	01/08/21 00:02	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	89	%	70-130		1	01/07/21 09:30	01/08/21 00:02		

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158106

Sample: N-12795 **Lab ID: 70158106002** Collected: 01/04/21 09:53 Received: 01/04/21 13:18 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)	**0.33**	ug/L	0.020		1	01/07/21 09:30	01/08/21 00:34	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	01/07/21 09:30	01/08/21 00:34		

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158106

Sample: N-06092 **Lab ID: 70158106003** Collected: 01/04/21 10:27 Received: 01/04/21 13:18 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)	**0.073**	ug/L	0.020		1	01/07/21 09:30	01/08/21 00:50	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	01/07/21 09:30	01/08/21 00:50		

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

QUALITY CONTROL DATA

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158106

QC Batch: 192070
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70158106001, 70158106002, 70158106003

METHOD BLANK: 942126
Matrix: Drinking Water
Associated Lab Samples: 70158106001, 70158106002, 70158106003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	01/07/21 19:59	
1,4-Dioxane-d8 (S)	%	80	70-130	01/07/21 19:59	

LABORATORY CONTROL SAMPLE: 942127

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

MATRIX SPIKE SAMPLE: 942128

Parameter	Units	70158146001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.02	0.020	101	70-130	
1,4-Dioxane-d8 (S)	%				87	70-130	

SAMPLE DUPLICATE: 942129

Parameter	Units	70158148001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	87	90		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

QUALIFIERS

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158106

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.

SAMPLE QUALIFIERS

Sample: 70158106001

[1] 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 1/4
Pace Project No.: 70158106

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70158106001	**N-10149**	EPA 522	192070	EPA 522	192250
70158106002	**N-12795**	EPA 522	192070	EPA 522	192250
70158106003	**N-06092**	EPA 522	192070	EPA 522	192250

Pace Analytical®

WO#: 70158106

70158106

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 1/4/21

Collected By: CS

Accepted By:

Cooler Temp: 9.8 °C

(R) 1/4/21 13:18

☐ WELL OFF LINE

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client:

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.
1/4/21 9:45am	PW	Ran to waste Well 20 H-10149	RW		RO			1,4 Dioxane	
1/4/21 9:53am	PW	Ran to system Well 21 H-12795	RW		RO			1,4 Dioxane	
1/4/21 10:27am	PW	Ran to system Well 12 H-06092	RW		RO			1,4 Dioxane	

Remarks:

Pace Analytical®

Sample Condition Upon Rec

WO#: 70158106
PM: JSA **Due Date: 01/14/21**
CLIENT: JWD

Client Name: Jericho Water District

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: -0.2

Cooler Temperature(°C): 9.8 Cooler Temperature Corrected(°C): 9.6

Temp should be above freezing to 6.0°C

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

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

Date and Initials of person examining contents: CH 1/4/21

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 #				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: 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

January 11, 2021

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

RE: Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158108

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on January 04, 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

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
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 1/4
Pace Project No.: 70158108

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

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

SAMPLE SUMMARY

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158108

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70158108001	**N-08713**	Drinking Water	01/04/21 09:08	01/04/21 13:18
70158108002	**N-14003**	Drinking Water	01/04/21 09:28	01/04/21 13:18
70158108003	**N-05201**	Drinking Water	01/04/21 09:50	01/04/21 13:18
70158108004	**N-11295**	Drinking Water	01/04/21 10:33	01/04/21 13:18
70158108005	**N-11107**	Drinking Water	01/04/21 10:42	01/04/21 13:18
70158108006	**N-07781**	Drinking Water	01/04/21 11:12	01/04/21 13:18

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

SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158108

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70158108001	**N-08713**	EPA 522	TJD	2
70158108002	**N-14003**	EPA 522	TJD	2
70158108003	**N-05201**	EPA 522	TJD	2
70158108004	**N-11295**	EPA 522	TJD	2
70158108005	**N-11107**	EPA 522	TJD	2
70158108006	**N-07781**	EPA 522	TJD	2

PACE-MV = Pace Analytical Services - Melville

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158108

Sample: N-08713 **Lab ID: 70158108001** Collected: 01/04/21 09:08 Received: 01/04/21 13:18 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)	**0.13**	ug/L	0.020		1	01/07/21 09:30	01/08/21 01:07	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	88	%	70-130		1	01/07/21 09:30	01/08/21 01:07		

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158108

Sample: N-14003 **Lab ID: 70158108002** Collected: 01/04/21 09:28 Received: 01/04/21 13:18 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)	**0.080**	ug/L	0.020		1	01/07/21 09:30	01/08/21 01:23	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	88	%	70-130		1	01/07/21 09:30	01/08/21 01:23		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158108

Sample: N-05201 **Lab ID: 70158108003** Collected: 01/04/21 09:50 Received: 01/04/21 13:18 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)	**<0.020**	ug/L	0.020		1	01/07/21 09:30	01/08/21 01:39	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	89	%	70-130		1	01/07/21 09:30	01/08/21 01:39		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158108

Sample: N-11295 **Lab ID: 70158108004** Collected: 01/04/21 10:33 Received: 01/04/21 13:18 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)	**0.13**	ug/L	0.020		1	01/07/21 09:30	01/08/21 01:56	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	85	%	70-130		1	01/07/21 09:30	01/08/21 01:56		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158108

Sample: N-11107 **Lab ID: 70158108005** Collected: 01/04/21 10:42 Received: 01/04/21 13:18 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)	**0.086**	ug/L	0.020		1	01/07/21 10:00	01/08/21 04:05	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	91	%	70-130		1	01/07/21 10:00	01/08/21 04:05		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158108

Sample: N-07781 **Lab ID: 70158108006** Collected: 01/04/21 11:12 Received: 01/04/21 13:18 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)	**0.093**	ug/L	0.020		1	01/07/21 10:00	01/08/21 04:22	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	01/07/21 10:00	01/08/21 04:22		

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158108

QC Batch: 192070
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70158108001, 70158108002, 70158108003, 70158108004

METHOD BLANK: 942126
Matrix: Drinking Water
Associated Lab Samples: 70158108001, 70158108002, 70158108003, 70158108004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	01/07/21 19:59	
1,4-Dioxane-d8 (S)	%	80	70-130	01/07/21 19:59	

LABORATORY CONTROL SAMPLE: 942127

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

MATRIX SPIKE SAMPLE: 942128

Parameter	Units	70158146001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.02	0.020	101	70-130	
1,4-Dioxane-d8 (S)	%				87	70-130	

SAMPLE DUPLICATE: 942129

Parameter	Units	70158148001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	87	90		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 1/4
Pace Project No.: 70158108

QC Batch: 192173
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70158108005, 70158108006

METHOD BLANK: 942610
Matrix: Drinking Water
Associated Lab Samples: 70158108005, 70158108006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	01/08/21 03:17	
1,4-Dioxane-d8 (S)	%	89	70-130	01/08/21 03:17	

LABORATORY CONTROL SAMPLE: 942611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.7	83	70-130	
1,4-Dioxane-d8 (S)	%			86	70-130	

MATRIX SPIKE SAMPLE: 942612

Parameter	Units	70158118001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	8.0	2	9.6	80	70-130	E
1,4-Dioxane-d8 (S)	%				88	70-130	

SAMPLE DUPLICATE: 942613

Parameter	Units	70158118002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	8.2	8.1	1	20	E
1,4-Dioxane-d8 (S)	%	91	91		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

QUALIFIERS

Project: 1,4 DIOXANE 1/4
Pace Project No.: 70158108

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.

SAMPLE QUALIFIERS

Sample: 70158108001
[1] RUN TO WASTE

Sample: 70158108003
[1] RUN TO WASTE

Sample: 70158108004
[1] RUN TO WASTE

Sample: 70158108006
[1] 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 1/4
Pace Project No.: 70158108

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70158108001	**N-08713**	EPA 522	192070	EPA 522	192250
70158108002	**N-14003**	EPA 522	192070	EPA 522	192250
70158108003	**N-05201**	EPA 522	192070	EPA 522	192250
70158108004	**N-11295**	EPA 522	192070	EPA 522	192250
70158108005	**N-11107**	EPA 522	192173	EPA 522	192255
70158108006	**N-07781**	EPA 522	192173	EPA 522	192255

WO#: 70158108

70158108

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 1-4-2021

Collected By: TK

Accepted By: [illegible]

Cooler Temp: 9.8 °C

(R) 1/4/21 13:18

☐ WELL OFF LINE _____

☐ WELL RUN TO SYSTEM _____

☐ 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.
1-4-21 09:08	PW	well #27 N-08713 Run to waste	RW		RO	Ø		1,4- Dioxane	
1-4-21 09:28	PW	well #28 N-14003 Run to System	RW		RO	Ø		" "	
1-4-21 09:50	PW	well #11 N-05201 Run to Waste	RW		RO	Ø		" "	
~~1-4-21~~	~~PW~~	~~well #6 N-03474 Run to waste~~	~~RW~~		~~RO~~	~~Ø~~		" "	
~~1-4-21~~	~~PW~~	~~well #16 N-07446 Run to waste~~	~~RW~~		~~RO~~	~~Ø~~		" "	
~~1-4-21~~	~~PW~~	~~well #7 N-03475 Run to Waste~~	~~RW~~		~~RO~~	~~Ø~~		1,4- Dioxane	
1-4-21 10:33	PW	well #30 N-11295 Run to Waste	RW		RO	Ø		" "	
1-4-21 10:42	PW	well #29 N-11107 Run to System	RW		RO	Ø		" "	
1-4-21 11:12	PW	well #22 N-07781 Run to waste	RW		RO	Ø		1,4- Dioxane	

Remarks:

Pace Analytical®

Sample Condition Upon R

WO#: 70158108
PM: JSA **Due Date: 01/14/21**
CLIENT: JWD

Client Name: Jericho Water Distric

Pr

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: -0.2

Cooler Temperature(°C): 9.8 Cooler Temperature Corrected(°C): 9.6

Temp should be above freezing to 6.0°C

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

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

Date and Initials of person examining contents: CH 1/4/21

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

January 18, 2021

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

RE: Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on January 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
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 DIOX 1/6
Pace Project No.: 70158436

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
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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

SAMPLE SUMMARY

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70158436001	**N-03474**	Drinking Water	01/06/21 09:03	01/06/21 11:40
70158436002	**N-07446**	Drinking Water	01/06/21 09:21	01/06/21 11:40
70158436003	**N-03475**	Drinking Water	01/06/21 09:36	01/06/21 11:40
70158436004	**N-08355**	Drinking Water	01/06/21 10:12	01/06/21 11:40
70158436005	**N-13119**	Drinking Water	01/06/21 10:24	01/06/21 11:40

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

SAMPLE ANALYTE COUNT

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70158436001	**N-03474**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	10	PASI-O
70158436002	**N-07446**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70158436003	**N-03475**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70158436004	**N-08355**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70158436005	**N-13119**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O

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

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

ANALYTICAL RESULTS

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

Sample: N-03474 **Lab ID: 70158436001** Collected: 01/06/21 09:03 Received: 01/06/21 11:40 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)	**0.11**	ug/L	0.020		1	01/08/21 09:30	01/08/21 22:41	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	85	%	70-130		1	01/08/21 09:30	01/08/21 22:41		
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	01/08/21 23:51	01/12/21 21:27	375-73-5	1j
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	01/08/21 23:51	01/12/21 21:27	375-85-9	1j
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	01/08/21 23:51	01/12/21 21:27	355-46-4	1j
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	01/08/21 23:51	01/12/21 21:27	375-95-1	1j
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	01/08/21 23:51	01/12/21 21:27	1763-23-1	1j
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	01/08/21 23:51	01/12/21 21:27	335-67-1	1j
Surrogates									
13C2-PFDA (S)	75	%	70-130		1	01/08/21 23:51	01/12/21 21:27		
13C2-PFHxA (S)	92	%	70-130		1	01/08/21 23:51	01/12/21 21:27		
NEtFOSAA-d5 (S)	65	%	70-130		1	01/08/21 23:51	01/12/21 21:27		S0
HFPO-DAS (S)	85	%	70-130		1	01/08/21 23:51	01/12/21 21:27		

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

ANALYTICAL RESULTS

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

Sample: N-07446 **Lab ID: 70158436002** Collected: 01/06/21 09:21 Received: 01/06/21 11:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.025**	ug/L	0.020		1	01/08/21 09:30	01/08/21 22:57	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	84	%	70-130		1	01/08/21 09:30	01/08/21 22:57		
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	01/13/21 14:14	01/14/21 16:31	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	01/13/21 14:14	01/14/21 16:31	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	01/13/21 14:14	01/14/21 16:31	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	01/13/21 14:14	01/14/21 16:31	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	01/13/21 14:14	01/14/21 16:31	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	01/13/21 14:14	01/14/21 16:31	335-67-1	
Surrogates									
13C2-PFDA (S)	91	%	70-130		1	01/13/21 14:14	01/14/21 16:31		
13C2-PFHxA (S)	94	%	70-130		1	01/13/21 14:14	01/14/21 16:31		
NEtFOSAA-d5 (S)	88	%	70-130		1	01/13/21 14:14	01/14/21 16:31		
HFPO-DAS (S)	87	%	70-130		1	01/13/21 14:14	01/14/21 16:31		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

Sample: N-03475 **Lab ID: 70158436003** Collected: 01/06/21 09:36 Received: 01/06/21 11:40 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)	**0.058**	ug/L	0.020		1	01/08/21 09:30	01/08/21 23:14	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	82	%	70-130		1	01/08/21 09:30	01/08/21 23:14		
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	01/13/21 14:14	01/14/21 16:47	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	01/13/21 14:14	01/14/21 16:47	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	01/13/21 14:14	01/14/21 16:47	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	01/13/21 14:14	01/14/21 16:47	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	01/13/21 14:14	01/14/21 16:47	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	01/13/21 14:14	01/14/21 16:47	335-67-1	
Surrogates									
13C2-PFDA (S)	89	%	70-130		1	01/13/21 14:14	01/14/21 16:47		
13C2-PFHxA (S)	90	%	70-130		1	01/13/21 14:14	01/14/21 16:47		
NEtFOSAA-d5 (S)	90	%	70-130		1	01/13/21 14:14	01/14/21 16:47		
HFPO-DAS (S)	86	%	70-130		1	01/13/21 14:14	01/14/21 16:47		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

Sample: N-08355 **Lab ID: 70158436004** Collected: 01/06/21 10:12 Received: 01/06/21 11:40 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)	**10.7**	ug/L	0.10		5	01/08/21 09:30	01/11/21 17:58	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		5	01/08/21 09:30	01/11/21 17:58		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.8**	ng/L	1.8		1	01/13/21 14:14	01/14/21 17:02	375-73-5	
Perfluoroheptanoic acid	**5.6**	ng/L	1.8		1	01/13/21 14:14	01/14/21 17:02	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	01/13/21 14:14	01/14/21 17:02	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	01/13/21 14:14	01/14/21 17:02	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	01/13/21 14:14	01/14/21 17:02	1763-23-1	
Perfluorooctanoic acid	**3.1**	ng/L	1.8	10	1	01/13/21 14:14	01/14/21 17:02	335-67-1	
Surrogates									
13C2-PFDA (S)	88	%	70-130		1	01/13/21 14:14	01/14/21 17:02		
13C2-PFHxA (S)	91	%	70-130		1	01/13/21 14:14	01/14/21 17:02		
NEtFOSAA-d5 (S)	89	%	70-130		1	01/13/21 14:14	01/14/21 17:02		
HFPO-DAS (S)	89	%	70-130		1	01/13/21 14:14	01/14/21 17:02		

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ANALYTICAL RESULTS

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

Sample: N-13119 **Lab ID: 70158436005** Collected: 01/06/21 10:24 Received: 01/06/21 11:40 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)	**0.99**	ug/L	0.020		1	01/08/21 09:30	01/08/21 23:46	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	84	%	70-130		1	01/08/21 09:30	01/08/21 23:46		
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	01/13/21 14:14	01/14/21 17:18	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	01/13/21 14:14	01/14/21 17:18	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	01/13/21 14:14	01/14/21 17:18	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	01/13/21 14:14	01/14/21 17:18	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	01/13/21 14:14	01/14/21 17:18	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	01/13/21 14:14	01/14/21 17:18	335-67-1	
Surrogates									
13C2-PFDA (S)	90	%	70-130		1	01/13/21 14:14	01/14/21 17:18		
13C2-PFHxA (S)	91	%	70-130		1	01/13/21 14:14	01/14/21 17:18		
NEtFOSAA-d5 (S)	86	%	70-130		1	01/13/21 14:14	01/14/21 17:18		
HFPO-DAS (S)	89	%	70-130		1	01/13/21 14:14	01/14/21 17:18		

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

QC Batch: 192303
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70158436001, 70158436002, 70158436003, 70158436004, 70158436005

METHOD BLANK: 943366
Matrix: Drinking Water
Associated Lab Samples: 70158436001, 70158436002, 70158436003, 70158436004, 70158436005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	01/08/21 18:51	
1,4-Dioxane-d8 (S)	%	86	70-130	01/08/21 18:51	

LABORATORY CONTROL SAMPLE: 943367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4	3.3	83	70-130	
1,4-Dioxane-d8 (S)	%			88	70-130	

MATRIX SPIKE SAMPLE: 943368

Parameter	Units	70158113002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	4.2	4	7.8	91	70-130	E
1,4-Dioxane-d8 (S)	%				89	70-130	

SAMPLE DUPLICATE: 943369

Parameter	Units	70158113003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	91	91		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

QC Batch: 695293
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: 70158436001

METHOD BLANK: 3784657
Matrix: Water
Associated Lab Samples: 70158436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	01/12/21 19:53	
Perfluoroheptanoic acid	ng/L	ND	2.0	01/12/21 19:53	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	01/12/21 19:53	
Perfluorononanoic acid	ng/L	ND	2.0	01/12/21 19:53	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	01/12/21 19:53	
Perfluorooctanoic acid	ng/L	ND	2.0	01/12/21 19:53	
13C2-PFDA (S)	%	57	70-130	01/12/21 19:53	S0
13C2-PFHxA (S)	%	59	70-130	01/12/21 19:53	S0
HFPO-DAS (S)	%	57	70-130	01/12/21 19:53	S0
NEtFOSAA-d5 (S)	%	54	70-130	01/12/21 19:53	S0

LABORATORY CONTROL SAMPLE: 3784658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	160	138	86	70-130	
Perfluoroheptanoic acid	ng/L	160	149	93	70-130	
Perfluorohexanesulfonic acid	ng/L	160	119	75	70-130	
Perfluorononanoic acid	ng/L	160	141	88	70-130	
Perfluorooctanesulfonic acid	ng/L	160	137	86	70-130	
Perfluorooctanoic acid	ng/L	160	140	87	70-130	
13C2-PFDA (S)	%			71	70-130	
13C2-PFHxA (S)	%			77	70-130	
HFPO-DAS (S)	%			76	70-130	
NEtFOSAA-d5 (S)	%			66	70-130	S0

LABORATORY CONTROL SAMPLE: 3784659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	1.8J	89	50-150	
Perfluoroheptanoic acid	ng/L	2	1.7J	83	50-150	
Perfluorohexanesulfonic acid	ng/L	2	1.7J	86	50-150	
Perfluorononanoic acid	ng/L	2	ND	81	50-150	
Perfluorooctanesulfonic acid	ng/L	2	1.8J	90	50-150	
Perfluorooctanoic acid	ng/L	2	1.7J	87	50-150	
13C2-PFDA (S)	%			46	70-130	S0
13C2-PFHxA (S)	%			55	70-130	S0
HFPO-DAS (S)	%			58	70-130	S0

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

LABORATORY CONTROL SAMPLE: 3784659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			42	70-130	S0

MATRIX SPIKE SAMPLE: 3784669

Parameter	Units	70158513001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	7.4	6.4	80	70-130	
Perfluoroheptanoic acid	ng/L	<1.8	7.4	7.2	81	70-130	
Perfluorohexanesulfonic acid	ng/L	2.7	7.4	9.0	86	70-130	
Perfluorononanoic acid	ng/L	<1.8	7.4	7.8	86	70-130	
Perfluorooctanesulfonic acid	ng/L	14.0	7.4	25.3	153	70-130	M1
Perfluorooctanoic acid	ng/L	4.9	7.4	11.1	84	70-130	
13C2-PFDA (S)	%				77	70-130	
13C2-PFHxA (S)	%				89	70-130	
HFPO-DAS (S)	%				82	70-130	
NEtFOSAA-d5 (S)	%				64	70-130	S0

SAMPLE DUPLICATE: 3784670

Parameter	Units	70158436001 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)	%	75	62			S0
13C2-PFHxA (S)	%	92	81			
HFPO-DAS (S)	%	85	82			
NEtFOSAA-d5 (S)	%	65	53			S0

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

QC Batch: 696341
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: 70158436002, 70158436003, 70158436004, 70158436005

METHOD BLANK: 3790361
Matrix: Water
Associated Lab Samples: 70158436002, 70158436003, 70158436004, 70158436005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	01/14/21 14:57	
Perfluoroheptanoic acid	ng/L	ND	2.0	01/14/21 14:57	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	01/14/21 14:57	
Perfluorononanoic acid	ng/L	ND	2.0	01/14/21 14:57	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	01/14/21 14:57	
Perfluorooctanoic acid	ng/L	ND	2.0	01/14/21 14:57	
13C2-PFDA (S)	%	93	70-130	01/14/21 14:57	
13C2-PFHxA (S)	%	90	70-130	01/14/21 14:57	
HFPO-DAS (S)	%	85	70-130	01/14/21 14:57	
NEtFOSAA-d5 (S)	%	82	70-130	01/14/21 14:57	

LABORATORY CONTROL SAMPLE: 3790362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	160	154	96	70-130	
Perfluoroheptanoic acid	ng/L	160	155	97	70-130	
Perfluorohexanesulfonic acid	ng/L	160	158	99	70-130	
Perfluorononanoic acid	ng/L	160	161	101	70-130	
Perfluorooctanesulfonic acid	ng/L	160	158	99	70-130	
Perfluorooctanoic acid	ng/L	160	160	100	70-130	
13C2-PFDA (S)	%			87	70-130	
13C2-PFHxA (S)	%			85	70-130	
HFPO-DAS (S)	%			82	70-130	
NEtFOSAA-d5 (S)	%			89	70-130	

LABORATORY CONTROL SAMPLE: 3790363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	1.2J	62	50-150	
Perfluoroheptanoic acid	ng/L	2	1.7J	86	50-150	
Perfluorohexanesulfonic acid	ng/L	2	1.7J	87	50-150	
Perfluorononanoic acid	ng/L	2	ND	83	50-150	
Perfluorooctanesulfonic acid	ng/L	2	1.7J	85	50-150	
Perfluorooctanoic acid	ng/L	2	1.7J	85	50-150	
13C2-PFDA (S)	%			84	70-130	
13C2-PFHxA (S)	%			82	70-130	
HFPO-DAS (S)	%			82	70-130	

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QUALITY CONTROL DATA

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

LABORATORY CONTROL SAMPLE: 3790363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			82	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3790364 3790365

Parameter	Units	35602878002 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	0.025 ug/L	7	7	30.9	29.4	85	64	70-130	5	30	M1
Perfluoroheptanoic acid	ng/L	0.0012J ug/L	7	7	7.8	6.5	93	75	70-130	18	30	
Perfluorohexanesulfonic acid	ng/L	0.0010J ug/L	7	7	6.5	6.2	78	74	70-130	4	30	
Perfluorononanoic acid	ng/L	0.0018U ug/L	7	7	5.5	5.8	76	80	70-130	5	30	
Perfluorooctanesulfonic acid	ng/L	0.0044 ug/L	7	7	9.8	9.8	77	77	70-130	0	30	
Perfluorooctanoic acid	ng/L	0.0019 ug/L	7	7	7.7	7.3	83	77	70-130	5	30	
13C2-PFDA (S)	%						84	82	70-130			
13C2-PFHxA (S)	%						91	87	70-130			
HFPO-DAS (S)	%						87	87	70-130			
NEtFOSAA-d5 (S)	%						85	83	70-130			

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QUALIFIERS

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

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.

SAMPLE QUALIFIERS

Sample: 70158436001

[1] RUN TO WASTE

[2] 1j=A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Sample: 70158436002

[1] RUN TO WASTE

Sample: 70158436003

[1] RUN TO WASTE

Sample: 70158436004

[1] RUN TO WASTE

Sample: 70158436005

[1] RUN TO WASTE

BATCH QUALIFIERS

Batch: 695739

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1j A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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

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QUALIFIERS

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PFAS/1,4 DIOX 1/6
Pace Project No.: 70158436

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70158436001	**N-03474**	EPA 522	192303	EPA 522	192391
70158436002	**N-07446**	EPA 522	192303	EPA 522	192391
70158436003	**N-03475**	EPA 522	192303	EPA 522	192391
70158436004	**N-08355**	EPA 522	192303	EPA 522	192391
70158436005	**N-13119**	EPA 522	192303	EPA 522	192391
70158436001	**N-03474**	EPA 537.1	695293	EPA 537.1	695739
70158436002	**N-07446**	EPA 537.1	696341	EPA 537.1	696658
70158436003	**N-03475**	EPA 537.1	696341	EPA 537.1	696658
70158436004	**N-08355**	EPA 537.1	696341	EPA 537.1	696658
70158436005	**N-13119**	EPA 537.1	696341	EPA 537.1	696658

WO#: 70158436

70158436

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 1-6-21

Collected By: TK

Accepted By: Constantopoulos

Cooler Temp: 11.9 °C 11:40 1/6/21

(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 Dist

Address: 125 Convent Rd
Syosset NY 11791

Phone #: (516) 921-8250

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.
1-6-21 09:03	PW	N-03474 well #6 Ran to Waste	RW		RO	Ø		1,4-Dioxane	
1-6-21 09:21	PW	N-07446 well #16 Ran to Waste	RW		RO	Ø		" "	
1-6-21 09:36	PW	N-03475 well #7 Ran to Waste	RW		RO	Ø		" "	
1-6-21 10:12	PW	N-08355 well #25 Ran to Waste	RW		RO	Ø		" "	
1-6-21 10:24	PW	N-13119 well #26 Ran to Waste	RW		RO	Ø		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: 1-6-21

Collected By: TK

Accepted By: Christine Pallelli 1/6/21

Cooler Temp: 12.1 °C 11:39

☒ WELL OFF LINE Run to Waste

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water Dist

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.
1-6-21 09:03	PW	N-03474 well #6 Run to Waste	RW		RO	Ø		PFOS / PFOA	
1-6-21 09:21	PW	N-07446 well #16 Run to Waste	RW		RO	Ø		" "	
1-6-21 09:36	PW	N-03475 well #7 Run to Waste	RW		RO	Ø		" "	
1-6-21 10:12	PW	N-08355 well #25 Run to Waste	RW		RO	Ø		" "	
1-6-21 10:24	PW	N-13119 well #26 Run to Waste	RW		RO	Ø		PFOS / PFOA	

Remarks:

Sample Condition Upon Receipt

Pace Analytical®

WO#: 70158436
PM: JSA Due Date: 01/18/21
CLIENT: JWD

Client Name: Jenco 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: -0.2

Cooler Temperature(°C): 11.9 Cooler Temperature Corrected(°C): 11.7

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 1/6/21

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.

ENV-FRM-MELV-0024 00

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

February 12, 2021

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

RE: Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161272

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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
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 DIOX/PFAS 2/3
Pace Project No.: 70161272

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Delaware Certification # NY10478
Virginia Certification # 460302
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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

SAMPLE SUMMARY

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161272

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70161272001	**N-06092**	Drinking Water	02/03/21 08:45	02/03/21 14:53
70161272002	**N-08043**	Drinking Water	02/03/21 09:20	02/03/21 14:53
70161272003	**N-10149**	Drinking Water	02/03/21 09:45	02/03/21 14:53
70161272004	**N-12795**	Drinking Water	02/03/21 10:00	02/03/21 14:53
70161272005	**N-00198**	Drinking Water	02/03/21 10:35	02/03/21 14:53

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

SAMPLE ANALYTE COUNT

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161272

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70161272001	**N-06092**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161272002	**N-08043**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161272003	**N-10149**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161272004	**N-12795**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161272005	**N-00198**	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 DIOX/PFAS 2/3
Pace Project No.: 70161272

Sample: N-06092 **Lab ID: 70161272001** Collected: 02/03/21 08:45 Received: 02/03/21 14:53 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)	**0.083**	ug/L	0.020		1	02/08/21 13:25	02/09/21 05:24	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	02/08/21 13:25	02/09/21 05:24		
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	02/08/21 10:56	02/11/21 03:05	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/11/21 03:05	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/11/21 03:05	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/11/21 03:05	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	02/08/21 10:56	02/11/21 03:05	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	02/08/21 10:56	02/11/21 03:05	335-67-1	
Surrogates									
13C2-PFDA (S)	92	%	70-130		1	02/08/21 10:56	02/11/21 03:05		
13C2-PFHxA (S)	96	%	70-130		1	02/08/21 10:56	02/11/21 03:05		
HFPO-DAS (S)	88	%	70-130		1	02/08/21 10:56	02/11/21 03:05		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161272

Sample: N-08043 **Lab ID: 70161272002** Collected: 02/03/21 09:20 Received: 02/03/21 14:53 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	02/08/21 13:25	02/09/21 05:40	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	87	%	70-130		1	02/08/21 13:25	02/09/21 05:40		
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	02/08/21 10:56	02/11/21 03:24	375-73-5	
Perfluoroheptanoic acid	**<1.8**	ng/L	1.8		1	02/08/21 10:56	02/11/21 03:24	375-85-9	
Perfluorohexanesulfonic acid	**<1.8**	ng/L	1.8		1	02/08/21 10:56	02/11/21 03:24	355-46-4	
Perfluorononanoic acid	**<1.8**	ng/L	1.8		1	02/08/21 10:56	02/11/21 03:24	375-95-1	
Perfluorooctanesulfonic acid	**<1.8**	ng/L	1.8	10	1	02/08/21 10:56	02/11/21 03:24	1763-23-1	
Perfluorooctanoic acid	**<1.8**	ng/L	1.8	10	1	02/08/21 10:56	02/11/21 03:24	335-67-1	
Surrogates									
13C2-PFDA (S)	101	%	70-130		1	02/08/21 10:56	02/11/21 03:24		
13C2-PFHxA (S)	102	%	70-130		1	02/08/21 10:56	02/11/21 03:24		
HFPO-DAS (S)	88	%	70-130		1	02/08/21 10:56	02/11/21 03:24		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161272

Sample: N-10149 **Lab ID: 70161272003** Collected: 02/03/21 09:45 Received: 02/03/21 14:53 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	02/08/21 13:25	02/09/21 05:56	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	86	%	70-130		1	02/08/21 13:25	02/09/21 05:56		
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	02/08/21 10:56	02/11/21 03:42	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/11/21 03:42	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/11/21 03:42	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/11/21 03:42	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	02/08/21 10:56	02/11/21 03:42	1763-23-1	
Perfluorooctanoic acid	**2.3**	ng/L	2.0	10	1	02/08/21 10:56	02/11/21 03:42	335-67-1	
Surrogates									
13C2-PFDA (S)	92	%	70-130		1	02/08/21 10:56	02/11/21 03:42		
13C2-PFHxA (S)	95	%	70-130		1	02/08/21 10:56	02/11/21 03:42		
HFPO-DAS (S)	88	%	70-130		1	02/08/21 10:56	02/11/21 03:42		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161272

Sample: N-12795 **Lab ID: 70161272004** Collected: 02/03/21 10:00 Received: 02/03/21 14:53 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)	**0.36**	ug/L	0.020		1	02/08/21 13:25	02/09/21 06:12	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	83	%	70-130		1	02/08/21 13:25	02/09/21 06:12		
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	02/08/21 10:56	02/11/21 04:01	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	02/08/21 10:56	02/11/21 04:01	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	02/08/21 10:56	02/11/21 04:01	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	02/08/21 10:56	02/11/21 04:01	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	02/08/21 10:56	02/11/21 04:01	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	02/08/21 10:56	02/11/21 04:01	335-67-1	
Surrogates									
13C2-PFDA (S)	100	%	70-130		1	02/08/21 10:56	02/11/21 04:01		
13C2-PFHxA (S)	103	%	70-130		1	02/08/21 10:56	02/11/21 04:01		
HFPO-DAS (S)	91	%	70-130		1	02/08/21 10:56	02/11/21 04:01		

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161272

Sample: N-00198 **Lab ID: 70161272005** Collected: 02/03/21 10:35 Received: 02/03/21 14:53 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.37**	ug/L	0.020		1	02/09/21 08:55	02/10/21 14:55	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	84	%	70-130		1	02/09/21 08:55	02/10/21 14:55		
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	02/08/21 10:56	02/11/21 04:19	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	02/08/21 10:56	02/11/21 04:19	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	02/08/21 10:56	02/11/21 04:19	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	02/08/21 10:56	02/11/21 04:19	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	02/08/21 10:56	02/11/21 04:19	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	02/08/21 10:56	02/11/21 04:19	335-67-1	
Surrogates									
13C2-PFDA (S)	96	%	70-130		1	02/08/21 10:56	02/11/21 04:19		
13C2-PFHxA (S)	97	%	70-130		1	02/08/21 10:56	02/11/21 04:19		
HFPO-DAS (S)	82	%	70-130		1	02/08/21 10:56	02/11/21 04:19		

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

QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161272

QC Batch: 195690
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70161272001, 70161272002, 70161272003, 70161272004

METHOD BLANK: 960415
Matrix: Drinking Water
Associated Lab Samples: 70161272001, 70161272002, 70161272003, 70161272004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	02/08/21 23:34	
1,4-Dioxane-d8 (S)	%	95	70-130	02/08/21 23:34	

MATRIX SPIKE SAMPLE: 960419

Parameter	Units	70161245001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.80	0.02	0.85	243	70-130	M0
1,4-Dioxane-d8 (S)	%				92	70-130	

SAMPLE DUPLICATE: 960420

Parameter	Units	70161247001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.68	0.66	3	20	
1,4-Dioxane-d8 (S)	%	91	89		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 DIOX/PFAS 2/3
Pace Project No.: 70161272

QC Batch: 195805
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70161272005

METHOD BLANK: 961029
Matrix: Drinking Water
Associated Lab Samples: 70161272005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	02/10/21 14:24	
1,4-Dioxane-d8 (S)	%	90	70-130	02/10/21 14:24	

LABORATORY CONTROL SAMPLE: 961030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.7	83	70-130	
1,4-Dioxane-d8 (S)	%			87	70-130	

MATRIX SPIKE SAMPLE: 961031

Parameter	Units	70161272005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.37	2	2.0	84	70-130	
1,4-Dioxane-d8 (S)	%				87	70-130	

SAMPLE DUPLICATE: 961032

Parameter	Units	70161279001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.15	0.17	13	20	
1,4-Dioxane-d8 (S)	%	87	90		20	

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

QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161272

QC Batch: 703157
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: 70161272001, 70161272002, 70161272003, 70161272004, 70161272005

METHOD BLANK: 3830814
Matrix: Water
Associated Lab Samples: 70161272001, 70161272002, 70161272003, 70161272004, 70161272005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	02/11/21 00:17	
Perfluoroheptanoic acid	ng/L	ND	2.0	02/11/21 00:17	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	02/11/21 00:17	
Perfluorononanoic acid	ng/L	ND	2.0	02/11/21 00:17	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	02/11/21 00:17	
Perfluorooctanoic acid	ng/L	ND	2.0	02/11/21 00:17	
13C2-PFDA (S)	%	96	70-130	02/11/21 00:17	
13C2-PFHxA (S)	%	94	70-130	02/11/21 00:17	
HFPO-DAS (S)	%	92	70-130	02/11/21 00:17	

LABORATORY CONTROL SAMPLE: 3830815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	160	158	99	70-130	
Perfluoroheptanoic acid	ng/L	160	162	101	70-130	
Perfluorohexanesulfonic acid	ng/L	160	157	98	70-130	
Perfluorononanoic acid	ng/L	160	162	102	70-130	
Perfluorooctanesulfonic acid	ng/L	160	162	101	70-130	
Perfluorooctanoic acid	ng/L	160	164	102	70-130	
13C2-PFDA (S)	%			99	70-130	
13C2-PFHxA (S)	%			95	70-130	
HFPO-DAS (S)	%			85	70-130	

LABORATORY CONTROL SAMPLE: 3830816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	1.9J	96	50-150	
Perfluoroheptanoic acid	ng/L	2	2.1	104	50-150	
Perfluorohexanesulfonic acid	ng/L	2	2.0	102	50-150	
Perfluorononanoic acid	ng/L	2	ND	98	50-150	
Perfluorooctanesulfonic acid	ng/L	2	2.6	128	50-150	
Perfluorooctanoic acid	ng/L	2	2.3	116	50-150	
13C2-PFDA (S)	%			97	70-130	
13C2-PFHxA (S)	%			101	70-130	
HFPO-DAS (S)	%			94	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161272

MATRIX SPIKE SAMPLE: 3830986

Parameter	Units	70161335001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	145	149	103	70-130	
Perfluoroheptanoic acid	ng/L	<1.9	145	144	99	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	145	151	104	70-130	
Perfluorononanoic acid	ng/L	<1.9	145	142	98	70-130	
Perfluorooctanesulfonic acid	ng/L	3.6	145	145	98	70-130	
Perfluorooctanoic acid	ng/L	2.8	145	144	97	70-130	
13C2-PFDA (S)	%				98	70-130	
13C2-PFHxA (S)	%				103	70-130	
HFPO-DAS (S)	%				99	70-130	

SAMPLE DUPLICATE: 3830818

Parameter	Units	70161330001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	<1.9		30	
Perfluoroheptanoic acid	ng/L	<1.9	<1.9		30	
Perfluorohexanesulfonic acid	ng/L	<1.9	<1.9		30	
Perfluorononanoic acid	ng/L	<1.9	<1.9		30	
Perfluorooctanesulfonic acid	ng/L	<1.9	<1.9		30	
Perfluorooctanoic acid	ng/L	<1.9	<1.9		30	
13C2-PFDA (S)	%	100	104			
13C2-PFHxA (S)	%	99	104			
HFPO-DAS (S)	%	88	113			

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

QUALIFIERS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161272

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.

SAMPLE QUALIFIERS

Sample: 70161272002

[1] RUN TO WASTE

Sample: 70161272003

[1] RUN TO WASTE

Sample: 70161272005

[1] RUN TO WASTE

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161272

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70161272001	**N-06092**	EPA 522	195690	EPA 522	195764
70161272002	**N-08043**	EPA 522	195690	EPA 522	195764
70161272003	**N-10149**	EPA 522	195690	EPA 522	195764
70161272004	**N-12795**	EPA 522	195690	EPA 522	195764
70161272005	**N-00198**	EPA 522	195805	EPA 522	195936
70161272001	**N-06092**	EPA 537.1	703157	EPA 537.1	703548
70161272002	**N-08043**	EPA 537.1	703157	EPA 537.1	703548
70161272003	**N-10149**	EPA 537.1	703157	EPA 537.1	703548
70161272004	**N-12795**	EPA 537.1	703157	EPA 537.1	703548
70161272005	**N-00198**	EPA 537.1	703157	EPA 537.1	703548

WO#: 70161272

70161272

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 2/3/21

Collected By: CS

Accepted By: Mally Sh

Cooler Temp: 13.8 °C 2/3/21 1453

(5)

☐ 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.
2/3/21 8:45 Am	PW	Ran to system Well 12 H-06092	RW		RO			1,4 Dioxane	001
2/3/21 9:20 Am	PW	Ran to waste Well 23 H-08043	RW		RO			1,4 Dioxane	002
2/3/21 9:45 Am	PW	Ran to waste Well 20 H-10149	RW		RO			1,4 Dioxane	003
2/3/21 10:00 Am	PW	Ran to system Well 21 H-12795	RW		RO			1,4 Dioxane	004
2/3/21 10:35 Am	PW	Ran to waste Well 3 H-00195	RW		RO			1,4 Dioxane	005

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: 2/3/21

Collected By: CS

Accepted By: Mally Sh

Cooler Temp: 13.8 °C 2/3/21 1453

(15)

☐ 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)921-8260

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.
2/3/21 8:45 AM	PW	Ran to system Well 12 H-06092	RW		RO			PFOS/PFOA	001
2/3/21 9:20 AM	PW	Ran to waste Well 23 H-08043	RW		RO			PFOS/PFOA	002
2/3/21 9:45 AM	PW	Ran to waste Well 20 H-10149	RW		RO			PFOS/PFOA	003
2/3/21 10:00 AM	PW	Ran to system Well 21 H-12795	RW		RO			PFOS/PFOA	004
2/3/21 10:35 AM	PW	Ran to waste Well 3 H-00195	RW		RO			PFOS/PFOA	005

Remarks:

Sample Condition Upon Receipt

Pace Analytical®

Client Name: Jericho Water

Projec

WO#: 70161272
PM: JSA **Due Date: 02/15/21**
CLIENT: JWD

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

Thermometer Used: TH091 Correction Factor: -0.2

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 13.8 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: CH 2/3/21

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

February 22, 2021

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

RE: Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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
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 DIOX/PFAS 2/3
Pace Project No.: 70161279

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Delaware Certification # NY10478
Virginia Certification # 460302
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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

SAMPLE SUMMARY

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70161279001	**N-08713**	Drinking Water	02/03/21 10:10	02/03/21 13:39
70161279002	**N-14003**	Drinking Water	02/03/21 10:21	02/03/21 13:39
70161279003	**N-05201**	Drinking Water	02/03/21 10:55	02/03/21 13:39
70161279004	**N-03475**	Drinking Water	02/03/21 11:30	02/03/21 13:39
70161279005	**N-07446**	Drinking Water	02/03/21 11:42	02/03/21 13:39
70161279006	**N-08355**	Drinking Water	02/03/21 12:09	02/03/21 13:39
70161279007	**N-13119**	Drinking Water	02/03/21 12:55	02/03/21 13:39
70161279008	**N-13268**	Drinking Water	02/03/21 12:05	02/03/21 13:39
70161279009	**N-11107**	Drinking Water	02/03/21 12:50	02/03/21 13:39
70161279010	**N-11295**	Drinking Water	02/03/21 13:05	02/03/21 13:39
70161279011	**N-07782**	Drinking Water	02/03/21 13:05	02/03/21 13:39

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

SAMPLE ANALYTE COUNT

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70161279001	**N-08713**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161279002	**N-14003**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161279003	**N-05201**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161279004	**N-03475**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161279005	**N-07446**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161279006	**N-08355**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161279007	**N-13119**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161279008	**N-13268**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161279009	**N-11107**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161279010	**N-11295**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70161279011	**N-07782**	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

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Sample: N-08713 **Lab ID: 70161279001** Collected: 02/03/21 10:10 Received: 02/03/21 13:39 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)	**0.15**	ug/L	0.020		1	02/09/21 08:55	02/10/21 15:27	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	87	%	70-130		1	02/09/21 08:55	02/10/21 15:27		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.1**	ng/L	2.1		1	02/16/21 11:11	02/18/21 17:18	375-73-5	
Perfluoroheptanoic acid	**<2.1**	ng/L	2.1		1	02/16/21 11:11	02/18/21 17:18	375-85-9	
Perfluorohexanesulfonic acid	**<2.1**	ng/L	2.1		1	02/16/21 11:11	02/18/21 17:18	355-46-4	
Perfluorononanoic acid	**<2.1**	ng/L	2.1		1	02/16/21 11:11	02/18/21 17:18	375-95-1	
Perfluorooctanesulfonic acid	**<2.1**	ng/L	2.1	10	1	02/16/21 11:11	02/18/21 17:18	1763-23-1	
Perfluorooctanoic acid	**<2.1**	ng/L	2.1	10	1	02/16/21 11:11	02/18/21 17:18	335-67-1	
Surrogates									
13C2-PFDA (S)	128	%	70-130		1	02/16/21 11:11	02/18/21 17:18		
13C2-PFHxA (S)	127	%	70-130		1	02/16/21 11:11	02/18/21 17:18		
HFPO-DAS (S)	115	%	70-130		1	02/16/21 11:11	02/18/21 17:18		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Sample: N-14003 **Lab ID: 70161279002** Collected: 02/03/21 10:21 Received: 02/03/21 13:39 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)	**0.086**	ug/L	0.020		1	02/09/21 08:55	02/10/21 15:57	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	83	%	70-130		1	02/09/21 08:55	02/10/21 15:57		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.0**	ng/L	2.0		1	02/16/21 11:11	02/18/21 17:37	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	02/16/21 11:11	02/18/21 17:37	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	02/16/21 11:11	02/18/21 17:37	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	02/16/21 11:11	02/18/21 17:37	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	02/16/21 11:11	02/18/21 17:37	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	02/16/21 11:11	02/18/21 17:37	335-67-1	
Surrogates									
13C2-PFDA (S)	126	%	70-130		1	02/16/21 11:11	02/18/21 17:37		
13C2-PFHxA (S)	124	%	70-130		1	02/16/21 11:11	02/18/21 17:37		
HFPO-DAS (S)	101	%	70-130		1	02/16/21 11:11	02/18/21 17:37		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Sample: N-05201 **Lab ID: 70161279003** Collected: 02/03/21 10:55 Received: 02/03/21 13:39 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	02/09/21 08:55	02/10/21 16:13	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	02/09/21 08:55	02/10/21 16:13		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.1**	ng/L	2.1		1	02/08/21 10:56	02/10/21 21:09	375-73-5	
Perfluoroheptanoic acid	**<2.1**	ng/L	2.1		1	02/08/21 10:56	02/10/21 21:09	375-85-9	
Perfluorohexanesulfonic acid	**<2.1**	ng/L	2.1		1	02/08/21 10:56	02/10/21 21:09	355-46-4	
Perfluorononanoic acid	**<2.1**	ng/L	2.1		1	02/08/21 10:56	02/10/21 21:09	375-95-1	
Perfluorooctanesulfonic acid	**<2.1**	ng/L	2.1	10	1	02/08/21 10:56	02/10/21 21:09	1763-23-1	
Perfluorooctanoic acid	**<2.1**	ng/L	2.1	10	1	02/08/21 10:56	02/10/21 21:09	335-67-1	
Surrogates									
13C2-PFDA (S)	96	%	70-130		1	02/08/21 10:56	02/10/21 21:09		
13C2-PFHxA (S)	88	%	70-130		1	02/08/21 10:56	02/10/21 21:09		
HFPO-DAS (S)	83	%	70-130		1	02/08/21 10:56	02/10/21 21:09		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Sample: N-03475 **Lab ID: 70161279004** Collected: 02/03/21 11:30 Received: 02/03/21 13:39 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)	**0.045**	ug/L	0.020		1	02/09/21 08:55	02/10/21 16:29	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	02/09/21 08:55	02/10/21 16:29		
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	02/08/21 10:56	02/10/21 21:28	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	02/08/21 10:56	02/10/21 21:28	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	02/08/21 10:56	02/10/21 21:28	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	02/08/21 10:56	02/10/21 21:28	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	02/08/21 10:56	02/10/21 21:28	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	02/08/21 10:56	02/10/21 21:28	335-67-1	
Surrogates									
13C2-PFDA (S)	84	%	70-130		1	02/08/21 10:56	02/10/21 21:28		
13C2-PFHxA (S)	87	%	70-130		1	02/08/21 10:56	02/10/21 21:28		
HFPO-DAS (S)	81	%	70-130		1	02/08/21 10:56	02/10/21 21:28		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Sample: N-07446 **Lab ID: 70161279005** Collected: 02/03/21 11:42 Received: 02/03/21 13:39 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)	**0.024**	ug/L	0.020		1	02/09/21 08:55	02/10/21 16:45	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	02/09/21 08:55	02/10/21 16:45		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.1**	ng/L	2.1		1	02/08/21 10:56	02/10/21 21:47	375-73-5	
Perfluoroheptanoic acid	**<2.1**	ng/L	2.1		1	02/08/21 10:56	02/10/21 21:47	375-85-9	
Perfluorohexanesulfonic acid	**<2.1**	ng/L	2.1		1	02/08/21 10:56	02/10/21 21:47	355-46-4	
Perfluorononanoic acid	**<2.1**	ng/L	2.1		1	02/08/21 10:56	02/10/21 21:47	375-95-1	
Perfluorooctanesulfonic acid	**<2.1**	ng/L	2.1	10	1	02/08/21 10:56	02/10/21 21:47	1763-23-1	
Perfluorooctanoic acid	**<2.1**	ng/L	2.1	10	1	02/08/21 10:56	02/10/21 21:47	335-67-1	
Surrogates									
13C2-PFDA (S)	87	%	70-130		1	02/08/21 10:56	02/10/21 21:47		
13C2-PFHxA (S)	86	%	70-130		1	02/08/21 10:56	02/10/21 21:47		
HFPO-DAS (S)	75	%	70-130		1	02/08/21 10:56	02/10/21 21:47		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Sample: N-08355 **Lab ID: 70161279006** Collected: 02/03/21 12:09 Received: 02/03/21 13:39 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)	**12.5**	ug/L	0.10		5	02/09/21 08:55	02/11/21 13:19	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	87	%	70-130		5	02/09/21 08:55	02/11/21 13:19		
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	02/08/21 10:56	02/10/21 22:26	375-73-5	
Perfluoroheptanoic acid	**7.5**	ng/L	2.0		1	02/08/21 10:56	02/10/21 22:26	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/10/21 22:26	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/10/21 22:26	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	02/08/21 10:56	02/10/21 22:26	1763-23-1	
Perfluorooctanoic acid	**3.5**	ng/L	2.0	10	1	02/08/21 10:56	02/10/21 22:26	335-67-1	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	02/08/21 10:56	02/10/21 22:26		
13C2-PFHxA (S)	87	%	70-130		1	02/08/21 10:56	02/10/21 22:26		
HFPO-DAS (S)	90	%	70-130		1	02/08/21 10:56	02/10/21 22:26		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Sample: N-13119 **Lab ID: 70161279007** Collected: 02/03/21 12:55 Received: 02/03/21 13:39 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	02/09/21 08:55	02/10/21 17:32	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	84	%	70-130		1	02/09/21 08:55	02/10/21 17:32		
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	02/08/21 10:56	02/10/21 23:03	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/10/21 23:03	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/10/21 23:03	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/10/21 23:03	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	02/08/21 10:56	02/10/21 23:03	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	02/08/21 10:56	02/10/21 23:03	335-67-1	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	02/08/21 10:56	02/10/21 23:03		
13C2-PFHxA (S)	92	%	70-130		1	02/08/21 10:56	02/10/21 23:03		
HFPO-DAS (S)	83	%	70-130		1	02/08/21 10:56	02/10/21 23:03		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Sample: N-13268 **Lab ID: 70161279008** Collected: 02/03/21 12:05 Received: 02/03/21 13:39 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	02/09/21 08:55	02/10/21 17:47	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	02/09/21 08:55	02/10/21 17:47		
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	02/08/21 10:56	02/10/21 22:06	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/10/21 22:06	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/10/21 22:06	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/10/21 22:06	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	02/08/21 10:56	02/10/21 22:06	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	02/08/21 10:56	02/10/21 22:06	335-67-1	
Surrogates									
13C2-PFDA (S)	85	%	70-130		1	02/08/21 10:56	02/10/21 22:06		
13C2-PFHxA (S)	87	%	70-130		1	02/08/21 10:56	02/10/21 22:06		
HFPO-DAS (S)	73	%	70-130		1	02/08/21 10:56	02/10/21 22:06		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Sample: N-11107 **Lab ID: 70161279009** Collected: 02/03/21 12:50 Received: 02/03/21 13:39 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)	**0.091**	ug/L	0.020		1	02/09/21 08:55	02/10/21 18:03	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	87	%	70-130		1	02/09/21 08:55	02/10/21 18:03		
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	02/08/21 10:56	02/10/21 22:44	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/10/21 22:44	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/10/21 22:44	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/10/21 22:44	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	02/08/21 10:56	02/10/21 22:44	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	02/08/21 10:56	02/10/21 22:44	335-67-1	
Surrogates									
13C2-PFDA (S)	90	%	70-130		1	02/08/21 10:56	02/10/21 22:44		
13C2-PFHxA (S)	89	%	70-130		1	02/08/21 10:56	02/10/21 22:44		
HFPO-DAS (S)	80	%	70-130		1	02/08/21 10:56	02/10/21 22:44		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Sample: N-11295 **Lab ID: 70161279010** Collected: 02/03/21 13:05 Received: 02/03/21 13:39 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)	**0.13**	ug/L	0.020		1	02/09/21 08:55	02/10/21 18:19	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	89	%	70-130		1	02/09/21 08:55	02/10/21 18:19		
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	02/08/21 10:56	02/10/21 23:21	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	02/08/21 10:56	02/10/21 23:21	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	02/08/21 10:56	02/10/21 23:21	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	02/08/21 10:56	02/10/21 23:21	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	02/08/21 10:56	02/10/21 23:21	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	02/08/21 10:56	02/10/21 23:21	335-67-1	
Surrogates									
13C2-PFDA (S)	92	%	70-130		1	02/08/21 10:56	02/10/21 23:21		
13C2-PFHxA (S)	91	%	70-130		1	02/08/21 10:56	02/10/21 23:21		
HFPO-DAS (S)	80	%	70-130		1	02/08/21 10:56	02/10/21 23:21		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Sample: N-07782 **Lab ID: 70161279011** Collected: 02/03/21 13:05 Received: 02/03/21 13:39 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)	**0.10**	ug/L	0.020		1	02/09/21 08:55	02/10/21 18:35	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	02/09/21 08:55	02/10/21 18:35		
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	02/08/21 10:56	02/11/21 01:31	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/11/21 01:31	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/11/21 01:31	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	02/08/21 10:56	02/11/21 01:31	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	02/08/21 10:56	02/11/21 01:31	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	02/08/21 10:56	02/11/21 01:31	335-67-1	
Surrogates									
13C2-PFDA (S)	93	%	70-130		1	02/08/21 10:56	02/11/21 01:31		
13C2-PFHxA (S)	96	%	70-130		1	02/08/21 10:56	02/11/21 01:31		
HFPO-DAS (S)	100	%	70-130		1	02/08/21 10:56	02/11/21 01:31		

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

QC Batch: 195805
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70161279001, 70161279002, 70161279003, 70161279004, 70161279005, 70161279006, 70161279007, 70161279008, 70161279009, 70161279010, 70161279011

METHOD BLANK: 961029
Matrix: Drinking Water
Associated Lab Samples: 70161279001, 70161279002, 70161279003, 70161279004, 70161279005, 70161279006, 70161279007, 70161279008, 70161279009, 70161279010, 70161279011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	02/10/21 14:24	
1,4-Dioxane-d8 (S)	%	90	70-130	02/10/21 14:24	

LABORATORY CONTROL SAMPLE: 961030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.7	83	70-130	
1,4-Dioxane-d8 (S)	%			87	70-130	

MATRIX SPIKE SAMPLE: 961031

Parameter	Units	70161272005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.37	2	2.0	84	70-130	
1,4-Dioxane-d8 (S)	%				87	70-130	

SAMPLE DUPLICATE: 961032

Parameter	Units	70161279001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.15	0.17	13	20	
1,4-Dioxane-d8 (S)	%	87	90		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

QC Batch: 703155
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: 70161279003, 70161279004, 70161279005, 70161279006, 70161279007, 70161279008, 70161279009, 70161279010

METHOD BLANK: 3830809
Matrix: Water
Associated Lab Samples: 70161279003, 70161279004, 70161279005, 70161279006, 70161279007, 70161279008, 70161279009, 70161279010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	02/10/21 15:52	
Perfluoroheptanoic acid	ng/L	ND	2.0	02/10/21 15:52	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	02/10/21 15:52	
Perfluorononanoic acid	ng/L	ND	2.0	02/10/21 15:52	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	02/10/21 15:52	
Perfluorooctanoic acid	ng/L	ND	2.0	02/10/21 15:52	
13C2-PFDA (S)	%	96	70-130	02/10/21 15:52	
13C2-PFHxA (S)	%	92	70-130	02/10/21 15:52	
HFPO-DAS (S)	%	80	70-130	02/10/21 15:52	
NEtFOSAA-d5 (S)	%	92	70-130	02/10/21 15:52	

LABORATORY CONTROL SAMPLE: 3830810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	8	7.2	90	70-130	
Perfluoroheptanoic acid	ng/L	8	8.4	105	70-130	
Perfluorohexanesulfonic acid	ng/L	8	7.3	91	70-130	
Perfluorononanoic acid	ng/L	8	8.3	104	70-130	
Perfluorooctanesulfonic acid	ng/L	8	8.0	100	70-130	
Perfluorooctanoic acid	ng/L	8	7.9	99	70-130	
13C2-PFDA (S)	%			93	70-130	
13C2-PFHxA (S)	%			88	70-130	
HFPO-DAS (S)	%			78	70-130	
NEtFOSAA-d5 (S)	%			83	70-130	

LABORATORY CONTROL SAMPLE: 3830811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	2.0	100	50-150	
Perfluoroheptanoic acid	ng/L	2	2.0	100	50-150	
Perfluorohexanesulfonic acid	ng/L	2	1.9J	96	50-150	
Perfluorononanoic acid	ng/L	2	2.1	104	50-150	
Perfluorooctanesulfonic acid	ng/L	2	2.0	102	50-150	
Perfluorooctanoic acid	ng/L	2	1.9J	94	50-150	
13C2-PFDA (S)	%			94	70-130	
13C2-PFHxA (S)	%			89	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

LABORATORY CONTROL SAMPLE: 3830811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
HFPO-DAS (S)	%			89	70-130	
NEtFOSAA-d5 (S)	%			86	70-130	

MATRIX SPIKE SAMPLE: 3830812

Parameter	Units	70161524001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	7.1	7.0	94	70-130	
Perfluoroheptanoic acid	ng/L	ND	7.1	7.4	105	70-130	
Perfluorohexanesulfonic acid	ng/L	ND	7.1	7.4	100	70-130	
Perfluorononanoic acid	ng/L	ND	7.1	6.9	98	70-130	
Perfluorooctanesulfonic acid	ng/L	ND	7.1	6.8	85	70-130	
Perfluorooctanoic acid	ng/L	ND	7.1	7.4	96	70-130	
13C2-PFDA (S)	%				101	70-130	
13C2-PFHxA (S)	%				97	70-130	
HFPO-DAS (S)	%				93	70-130	
NEtFOSAA-d5 (S)	%				98	70-130	

SAMPLE DUPLICATE: 3830975

Parameter	Units	70161480001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluoroheptanoic acid	ng/L	<1.8	<1.9		30	
Perfluorohexanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluorononanoic acid	ng/L	<1.8	<1.9		30	
Perfluorooctanesulfonic acid	ng/L	<1.8	<1.9		30	
Perfluorooctanoic acid	ng/L	3.9	3.6	7	30	
13C2-PFDA (S)	%	96	100			
13C2-PFHxA (S)	%	100	101			
HFPO-DAS (S)	%	87	98			
NEtFOSAA-d5 (S)	%	100	101			

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

QC Batch: 703157
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: 70161279011

METHOD BLANK: 3830814
Matrix: Water
Associated Lab Samples: 70161279011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	02/11/21 00:17	
Perfluoroheptanoic acid	ng/L	ND	2.0	02/11/21 00:17	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	02/11/21 00:17	
Perfluorononanoic acid	ng/L	ND	2.0	02/11/21 00:17	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	02/11/21 00:17	
Perfluorooctanoic acid	ng/L	ND	2.0	02/11/21 00:17	
13C2-PFDA (S)	%	96	70-130	02/11/21 00:17	
13C2-PFHxA (S)	%	94	70-130	02/11/21 00:17	
HFPO-DAS (S)	%	92	70-130	02/11/21 00:17	

LABORATORY CONTROL SAMPLE: 3830815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	160	158	99	70-130	
Perfluoroheptanoic acid	ng/L	160	162	101	70-130	
Perfluorohexanesulfonic acid	ng/L	160	157	98	70-130	
Perfluorononanoic acid	ng/L	160	162	102	70-130	
Perfluorooctanesulfonic acid	ng/L	160	162	101	70-130	
Perfluorooctanoic acid	ng/L	160	164	102	70-130	
13C2-PFDA (S)	%			99	70-130	
13C2-PFHxA (S)	%			95	70-130	
HFPO-DAS (S)	%			85	70-130	

LABORATORY CONTROL SAMPLE: 3830816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	1.9J	96	50-150	
Perfluoroheptanoic acid	ng/L	2	2.1	104	50-150	
Perfluorohexanesulfonic acid	ng/L	2	2.0	102	50-150	
Perfluorononanoic acid	ng/L	2	ND	98	50-150	
Perfluorooctanesulfonic acid	ng/L	2	2.6	128	50-150	
Perfluorooctanoic acid	ng/L	2	2.3	116	50-150	
13C2-PFDA (S)	%			97	70-130	
13C2-PFHxA (S)	%			101	70-130	
HFPO-DAS (S)	%			94	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

MATRIX SPIKE SAMPLE: 3830986

Parameter	Units	70161335001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	145	149	103	70-130	
Perfluoroheptanoic acid	ng/L	<1.9	145	144	99	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	145	151	104	70-130	
Perfluorononanoic acid	ng/L	<1.9	145	142	98	70-130	
Perfluorooctanesulfonic acid	ng/L	3.6	145	145	98	70-130	
Perfluorooctanoic acid	ng/L	2.8	145	144	97	70-130	
13C2-PFDA (S)	%				98	70-130	
13C2-PFHxA (S)	%				103	70-130	
HFPO-DAS (S)	%				99	70-130	

SAMPLE DUPLICATE: 3830818

Parameter	Units	70161330001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	<1.9		30	
Perfluoroheptanoic acid	ng/L	<1.9	<1.9		30	
Perfluorohexanesulfonic acid	ng/L	<1.9	<1.9		30	
Perfluorononanoic acid	ng/L	<1.9	<1.9		30	
Perfluorooctanesulfonic acid	ng/L	<1.9	<1.9		30	
Perfluorooctanoic acid	ng/L	<1.9	<1.9		30	
13C2-PFDA (S)	%	100	104			
13C2-PFHxA (S)	%	99	104			
HFPO-DAS (S)	%	88	113			

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

QC Batch: 705432
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: 70161279001, 70161279002

METHOD BLANK: 3843710
Matrix: Water
Associated Lab Samples: 70161279001, 70161279002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	02/18/21 13:52	
Perfluoroheptanoic acid	ng/L	ND	2.0	02/18/21 13:52	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	02/18/21 13:52	
Perfluorononanoic acid	ng/L	ND	2.0	02/18/21 13:52	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	02/18/21 13:52	
Perfluorooctanoic acid	ng/L	ND	2.0	02/18/21 13:52	
13C2-PFDA (S)	%	118	70-130	02/18/21 13:52	
13C2-PFHxA (S)	%	111	70-130	02/18/21 13:52	
HFPO-DAS (S)	%	114	70-130	02/18/21 13:52	
NEtFOSAA-d5 (S)	%	104	70-130	02/18/21 13:52	

LABORATORY CONTROL SAMPLE: 3843711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	8	9.0	112	70-130	
Perfluoroheptanoic acid	ng/L	8	9.4	117	70-130	
Perfluorohexanesulfonic acid	ng/L	8	8.4	105	70-130	
Perfluorononanoic acid	ng/L	8	10.2	128	70-130	
Perfluorooctanesulfonic acid	ng/L	8	9.3	116	70-130	
Perfluorooctanoic acid	ng/L	8	9.5	119	70-130	
13C2-PFDA (S)	%			109	70-130	
13C2-PFHxA (S)	%			112	70-130	
HFPO-DAS (S)	%			96	70-130	
NEtFOSAA-d5 (S)	%			103	70-130	

LABORATORY CONTROL SAMPLE: 3843712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	2.4	120	50-150	
Perfluoroheptanoic acid	ng/L	2	2.4	122	50-150	
Perfluorohexanesulfonic acid	ng/L	2	2.3	116	50-150	
Perfluorononanoic acid	ng/L	2	2.4	122	50-150	
Perfluorooctanesulfonic acid	ng/L	2	2.7	134	50-150	
Perfluorooctanoic acid	ng/L	2	2.4	122	50-150	
13C2-PFDA (S)	%			119	70-130	
13C2-PFHxA (S)	%			115	70-130	
HFPO-DAS (S)	%			121	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

LABORATORY CONTROL SAMPLE: 3843712

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

MATRIX SPIKE SAMPLE: 3843713

Parameter	Units	70161895001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	7.4	10.8	124	70-130	
Perfluoroheptanoic acid	ng/L	4.0	7.4	12.7	116	70-130	
Perfluorohexanesulfonic acid	ng/L	3.8	7.4	12.4	116	70-130	
Perfluorononanoic acid	ng/L	5.3	7.4	14.6	125	70-130	
Perfluorooctanesulfonic acid	ng/L	10.3	7.4	20.1	131	70-130	M1
Perfluorooctanoic acid	ng/L	10.6	7.4	18.7	109	70-130	
13C2-PFDA (S)	%				133	70-130	S0
13C2-PFHxA (S)	%				132	70-130	S0
HFPO-DAS (S)	%				115	70-130	
NEtFOSAA-d5 (S)	%				129	70-130	

SAMPLE DUPLICATE: 3843714

Parameter	Units	70161874001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.1	<2.1		30	
Perfluoroheptanoic acid	ng/L	<2.1	<2.1		30	
Perfluorohexanesulfonic acid	ng/L	<2.1	<2.1		30	
Perfluorononanoic acid	ng/L	<2.1	<2.1		30	
Perfluorooctanesulfonic acid	ng/L	<2.1	<2.1		30	
Perfluorooctanoic acid	ng/L	<2.1	<2.1		30	
13C2-PFDA (S)	%	127	141			S3
13C2-PFHxA (S)	%	129	136			S3
HFPO-DAS (S)	%	113	114			
NEtFOSAA-d5 (S)	%	116	127			

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QUALIFIERS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

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.

SAMPLE QUALIFIERS

Sample: 70161279001
[1] RUN TO WASTE
Sample: 70161279003
[1] RUN TO WASTE
Sample: 70161279004
[1] RUN TO WASTE
Sample: 70161279005
[1] RUN TO WASTE
Sample: 70161279006
[1] RUN TO WASTE
Sample: 70161279007
[1] RUN TO WASTE
Sample: 70161279008
[1] RUN TO WASTE
Sample: 70161279010
[1] RUN TO WASTE
Sample: 70161279011
[1] RUN TO WASTE

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QUALIFIERS

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOX/PFAS 2/3
Pace Project No.: 70161279

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70161279001	**N-08713**	EPA 522	195805	EPA 522	195936
70161279002	**N-14003**	EPA 522	195805	EPA 522	195936
70161279003	**N-05201**	EPA 522	195805	EPA 522	195936
70161279004	**N-03475**	EPA 522	195805	EPA 522	195936
70161279005	**N-07446**	EPA 522	195805	EPA 522	195936
70161279006	**N-08355**	EPA 522	195805	EPA 522	195936
70161279007	**N-13119**	EPA 522	195805	EPA 522	195936
70161279008	**N-13268**	EPA 522	195805	EPA 522	195936
70161279009	**N-11107**	EPA 522	195805	EPA 522	195936
70161279010	**N-11295**	EPA 522	195805	EPA 522	195936
70161279011	**N-07782**	EPA 522	195805	EPA 522	195936
70161279001	**N-08713**	EPA 537.1	705432	EPA 537.1	705778
70161279002	**N-14003**	EPA 537.1	705432	EPA 537.1	705778
70161279003	**N-05201**	EPA 537.1	703155	EPA 537.1	703545
70161279004	**N-03475**	EPA 537.1	703155	EPA 537.1	703545
70161279005	**N-07446**	EPA 537.1	703155	EPA 537.1	703545
70161279006	**N-08355**	EPA 537.1	703155	EPA 537.1	703545
70161279007	**N-13119**	EPA 537.1	703155	EPA 537.1	703545
70161279008	**N-13268**	EPA 537.1	703155	EPA 537.1	703545
70161279009	**N-11107**	EPA 537.1	703155	EPA 537.1	703545
70161279010	**N-11295**	EPA 537.1	703155	EPA 537.1	703545
70161279011	**N-07782**	EPA 537.1	703157	EPA 537.1	703548

WO#: 70161279

70161279

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 2-3-21

Collected By: TK

Accepted By: [illegible] 2/3/21

Cooler Temp: 6.4 °C 1339

☐ WELL OFF LINE _____

☐ WELL RUN TO SYSTEM _____

☐ 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.
2-3-21 10:10	PW	well #27 N-08713	Ran to Waste	RW		RO	Ø		1,4-Dioxane	001
2-3-21 10:21	PW	well #28 N-14003	Ran to System	RW		RO	Ø		" "	002
2-3-21 10:55	PW	well #11 N-05201	Ran to Waste	RW		RO	Ø		" "	003
2-3-21 11:30	PW	well #7 N-03475	Ran to Waste	RW		RO	Ø		" "	004
2-3-21 11:42	PW	well #16 N-07446	Ran to Waste	RW		RO	Ø		" "	005
2-3-21 12:09	PW	well #25 N-08355	Ran to Waste	RW		RO	Ø		" "	006
2-3-21 12:21	PW	well #26 N-13119	Ran to Waste	RW		RO	Ø		" "	007
2-3-21 12:55	PW	well #31 N-13268	Ran to Waste	RW		RO	Ø		" "	008
2-3-21 12:05	PW	well #29 N-11107	Ran to System	RW		RO	Ø		" "	009
2-3-21 12:50	PW	well #30 N-11295	Ran to Waste	RW		RO	Ø		" "	010
2-3-21 13:05	PW	well #22 N-07781	Ran to Waste	RW		RO	Ø		1,4-Dioxane	011

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: 2-3-21
Collected By: TK
Accepted By: Mallory Sm 2/3/21 (B)
Cooler Temp: 6.9 °C 1334

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

Client Info:
Name or Code: Jericho Water Dist
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.
2-3-21 10:10	PW	well #27 N-08713	Run to waste	RW		RO	Ø		PFOS / PFOA	001
2-3-21 10:21	PW	well #28 N-14003	Run to System	RW		RO	Ø		" "	002
2-3-21 10:55	PW	well #11 N-05201	Run to waste	RW		RO	Ø		" "	003
2-3-21 11:30	PW	well #7 N-03476	Run to waste	RW		RO	Ø		" "	004
2-3-21 11:42	PW	well #6 N 07446	Run to waste	RW		RO	Ø		" "	005
2-3-21 12:09	PW	well #25 N-08355	Run to Waste	RW		RO	Ø		" "	006
2-3-21 12:21	PW	well #26 N-13119	Run to Waste	RW		RO	Ø		" "	007
2-3-21 12:55	PW	well #31 N-13268	Run to Waste	RW		RO	Ø		" "	008
2-3-21 12:05	PW	well #29 N-11107	Run to Waste	RW		RO	Ø		" "	009
2-3-21 12:50	PW	well #30 N-11295	Run to Waste	RW		RO	Ø		" "	010
2-3-21 13:05	PW	well #22 N-07781	Run to Waste	RW		RO	Ø		PFOS / PFOA	011

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70161279
PM: JSA **Due Date: 02/15/21**
CLIENT: JWD

Client Name: Jericho W.D.

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

Thermometer Used: TH091 Correction Factor: -0.2

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 6.9 Cooler Temperature Corrected(°C): 6.7

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: CH 2/3/21

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: CH	~~☐ 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

March 10, 2021

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

RE: Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on March 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
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 3/1
Pace Project No.: 70164144

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Delaware Certification # NY10478
Virginia Certification # 460302
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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

SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70164144001	**N-00198**	Drinking Water	03/01/21 08:10	03/01/21 13:06
70164144002	**N-08043**	Drinking Water	03/01/21 09:05	03/01/21 13:06
70164144003	**N-06092**	Drinking Water	03/01/21 09:25	03/01/21 13:06
70164144004	**N-06093**	Drinking Water	03/01/21 09:50	03/01/21 13:06
70164144005	**N-12795**	Drinking Water	03/01/21 10:15	03/01/21 13:06
70164144006	**N-07772**	Drinking Water	03/01/21 11:07	03/01/21 13:06
70164144007	**N-07773**	Drinking Water	03/01/21 11:45	03/01/21 13:06

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

SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70164144001	**N-00198**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70164144002	**N-08043**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70164144003	**N-06092**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70164144004	**N-06093**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70164144005	**N-12795**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70164144006	**N-07772**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	SWR	9	PASI-O
70164144007	**N-07773**	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 3/1
Pace Project No.: 70164144

Sample: N-00198 **Lab ID: 70164144001** Collected: 03/01/21 08:10 Received: 03/01/21 13:06 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)	**0.36**	ug/L	0.020		1	03/06/21 12:03	03/09/21 03:29	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	87	%	70-130		1	03/06/21 12:03	03/09/21 03:29		
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	03/05/21 16:51	03/09/21 13:21	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 16:51	03/09/21 13:21	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	03/05/21 16:51	03/09/21 13:21	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 16:51	03/09/21 13:21	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 16:51	03/09/21 13:21	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 16:51	03/09/21 13:21	335-67-1	
Surrogates									
13C2-PFDA (S)	100	%	70-130		1	03/05/21 16:51	03/09/21 13:21		
13C2-PFHxA (S)	100	%	70-130		1	03/05/21 16:51	03/09/21 13:21		
HFPO-DAS (S)	98	%	70-130		1	03/05/21 16:51	03/09/21 13:21		

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

Sample: N-08043 **Lab ID: 70164144002** Collected: 03/01/21 09:05 Received: 03/01/21 13:06 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	03/06/21 12:03	03/09/21 03:45	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	89	%	70-130		1	03/06/21 12:03	03/09/21 03:45		
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	03/05/21 16:51	03/09/21 13:40	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 16:51	03/09/21 13:40	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	03/05/21 16:51	03/09/21 13:40	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 16:51	03/09/21 13:40	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 16:51	03/09/21 13:40	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 16:51	03/09/21 13:40	335-67-1	
Surrogates									
13C2-PFDA (S)	97	%	70-130		1	03/05/21 16:51	03/09/21 13:40		
13C2-PFHxA (S)	97	%	70-130		1	03/05/21 16:51	03/09/21 13:40		
HFPO-DAS (S)	95	%	70-130		1	03/05/21 16:51	03/09/21 13:40		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

Sample: N-06092 **Lab ID: 70164144003** Collected: 03/01/21 09:25 Received: 03/01/21 13:06 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)	**0.068**	ug/L	0.020		1	03/06/21 12:03	03/09/21 04:01	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	88	%	70-130		1	03/06/21 12:03	03/09/21 04:01		
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	03/06/21 11:33	03/08/21 22:57	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	03/06/21 11:33	03/08/21 22:57	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	03/06/21 11:33	03/08/21 22:57	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	03/06/21 11:33	03/08/21 22:57	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	03/06/21 11:33	03/08/21 22:57	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	03/06/21 11:33	03/08/21 22:57	335-67-1	
Surrogates									
13C2-PFDA (S)	96	%	70-130		1	03/06/21 11:33	03/08/21 22:57		
13C2-PFHxA (S)	110	%	70-130		1	03/06/21 11:33	03/08/21 22:57		
HFPO-DAS (S)	105	%	70-130		1	03/06/21 11:33	03/08/21 22:57		

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

Sample: N-06093 **Lab ID: 70164144004** Collected: 03/01/21 09:50 Received: 03/01/21 13:06 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.20**	ug/L	0.020		1	03/09/21 09:07	03/09/21 17:10	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	85	%	70-130		1	03/09/21 09:07	03/09/21 17:10		
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	03/06/21 11:33	03/08/21 23:12	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:12	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:12	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:12	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	03/06/21 11:33	03/08/21 23:12	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	03/06/21 11:33	03/08/21 23:12	335-67-1	
Surrogates									
13C2-PFDA (S)	93	%	70-130		1	03/06/21 11:33	03/08/21 23:12		
13C2-PFHxA (S)	112	%	70-130		1	03/06/21 11:33	03/08/21 23:12		
HFPO-DAS (S)	108	%	70-130		1	03/06/21 11:33	03/08/21 23:12		

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

Sample: N-12795 **Lab ID: 70164144005** Collected: 03/01/21 10:15 Received: 03/01/21 13:06 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.37**	ug/L	0.020		1	03/09/21 09:07	03/09/21 17:43	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	03/09/21 09:07	03/09/21 17:43		
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	03/06/21 11:33	03/08/21 23:28	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:28	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:28	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:28	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	03/06/21 11:33	03/08/21 23:28	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	03/06/21 11:33	03/08/21 23:28	335-67-1	
Surrogates									
13C2-PFDA (S)	99	%	70-130		1	03/06/21 11:33	03/08/21 23:28		
13C2-PFHxA (S)	118	%	70-130		1	03/06/21 11:33	03/08/21 23:28		
HFPO-DAS (S)	108	%	70-130		1	03/06/21 11:33	03/08/21 23:28		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

Sample: N-07772 **Lab ID: 70164144006** Collected: 03/01/21 11:07 Received: 03/01/21 13:06 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)	**0.19**	ug/L	0.020		1	03/09/21 09:07	03/09/21 18:16	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	03/09/21 09:07	03/09/21 18:16		
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	03/06/21 11:33	03/08/21 23:43	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:43	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:43	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:43	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	03/06/21 11:33	03/08/21 23:43	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	03/06/21 11:33	03/08/21 23:43	335-67-1	
Surrogates									
13C2-PFDA (S)	101	%	70-130		1	03/06/21 11:33	03/08/21 23:43		
13C2-PFHxA (S)	117	%	70-130		1	03/06/21 11:33	03/08/21 23:43		
HFPO-DAS (S)	111	%	70-130		1	03/06/21 11:33	03/08/21 23:43		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

Sample: N-07773 **Lab ID: 70164144007** Collected: 03/01/21 11:45 Received: 03/01/21 13:06 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	03/09/21 09:07	03/09/21 18:32	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	03/09/21 09:07	03/09/21 18:32		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<1.9**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:59	375-73-5	
Perfluoroheptanoic acid	**28.6**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:59	375-85-9	
Perfluorohexanesulfonic acid	**2.3**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:59	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	03/06/21 11:33	03/08/21 23:59	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	03/06/21 11:33	03/08/21 23:59	1763-23-1	
Perfluorooctanoic acid	**7.2**	ng/L	1.9	10	1	03/06/21 11:33	03/08/21 23:59	335-67-1	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	03/06/21 11:33	03/08/21 23:59		
13C2-PFHxA (S)	118	%	70-130		1	03/06/21 11:33	03/08/21 23:59		
HFPO-DAS (S)	109	%	70-130		1	03/06/21 11:33	03/08/21 23:59		

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

QC Batch: 199089
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70164144001, 70164144002, 70164144003

METHOD BLANK: 978823
Matrix: Drinking Water
Associated Lab Samples: 70164144001, 70164144002, 70164144003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	03/08/21 21:20	
1,4-Dioxane-d8 (S)	%	91	70-130	03/08/21 21:20	

MATRIX SPIKE SAMPLE: 978825

Parameter	Units	70163688001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.02	<0.020	80	70-130	
1,4-Dioxane-d8 (S)	%				88	70-130	

SAMPLE DUPLICATE: 979009

Parameter	Units	70163688002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	89	88		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

QC Batch: 199328
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70164144004, 70164144005, 70164144006, 70164144007

METHOD BLANK: 980351
Matrix: Drinking Water
Associated Lab Samples: 70164144004, 70164144005, 70164144006, 70164144007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	03/09/21 16:38	
1,4-Dioxane-d8 (S)	%	92	70-130	03/09/21 16:38	

LABORATORY CONTROL SAMPLE: 980352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.7	85	70-130	
1,4-Dioxane-d8 (S)	%			88	70-130	

MATRIX SPIKE SAMPLE: 980353

Parameter	Units	70164144004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.20	2	1.9	84	70-130	
1,4-Dioxane-d8 (S)	%				88	70-130	

SAMPLE DUPLICATE: 980354

Parameter	Units	70164144005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.37	0.38	4	20	
1,4-Dioxane-d8 (S)	%	90	93		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

QC Batch: 710469
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: 70164144001, 70164144002

METHOD BLANK: 3872344
Matrix: Water
Associated Lab Samples: 70164144001, 70164144002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	03/09/21 05:51	
Perfluoroheptanoic acid	ng/L	ND	2.0	03/09/21 05:51	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	03/09/21 05:51	
Perfluorononanoic acid	ng/L	ND	2.0	03/09/21 05:51	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	03/09/21 05:51	
Perfluorooctanoic acid	ng/L	ND	2.0	03/09/21 05:51	
13C2-PFDA (S)	%	105	70-130	03/09/21 05:51	
13C2-PFHxA (S)	%	104	70-130	03/09/21 05:51	
HFPO-DAS (S)	%	88	70-130	03/09/21 05:51	

LABORATORY CONTROL SAMPLE: 3872345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	142	122	86	70-130	
Perfluoroheptanoic acid	ng/L	160	139	87	70-130	
Perfluorohexanesulfonic acid	ng/L	146	127	87	70-130	
Perfluorononanoic acid	ng/L	160	139	87	70-130	
Perfluorooctanesulfonic acid	ng/L	148	128	86	70-130	
Perfluorooctanoic acid	ng/L	160	135	84	70-130	
13C2-PFDA (S)	%			103	70-130	
13C2-PFHxA (S)	%			104	70-130	
HFPO-DAS (S)	%			112	70-130	

LABORATORY CONTROL SAMPLE: 3872346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.8J	102	50-150	
Perfluoroheptanoic acid	ng/L	2	2.2	110	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.6J	90	50-150	
Perfluorononanoic acid	ng/L	2	ND	94	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.7J	93	50-150	
Perfluorooctanoic acid	ng/L	2	1.9J	94	50-150	
13C2-PFDA (S)	%			104	70-130	
13C2-PFHxA (S)	%			104	70-130	
HFPO-DAS (S)	%			115	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

MATRIX SPIKE SAMPLE: 3872347

Parameter	Units	70164236001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	1.8	1.8J	99	70-130	
Perfluoroheptanoic acid	ng/L	ND	2	ND	98	70-130	
Perfluorohexanesulfonic acid	ng/L	ND	1.9	1.9J	101	70-130	
Perfluorononanoic acid	ng/L	ND	2	ND	94	70-130	
Perfluorooctanesulfonic acid	ng/L	ND	1.9	1.8J	91	70-130	
Perfluorooctanoic acid	ng/L	ND	2	2.1	104	70-130	
13C2-PFDA (S)	%				108	70-130	
13C2-PFHxA (S)	%				104	70-130	
HFPO-DAS (S)	%				115	70-130	

SAMPLE DUPLICATE: 3872348

Parameter	Units	70164232001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	ND		30	
Perfluoroheptanoic acid	ng/L	3.9	4.1	5	30	
Perfluorohexanesulfonic acid	ng/L	ND	ND		30	
Perfluorononanoic acid	ng/L	ND	ND		30	
Perfluorooctanesulfonic acid	ng/L	ND	ND		30	
Perfluorooctanoic acid	ng/L	ND	2.0		30	
13C2-PFDA (S)	%	108	99			
13C2-PFHxA (S)	%	106	105			
HFPO-DAS (S)	%	101	115			

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

QC Batch: 710618
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: 70164144003, 70164144004, 70164144005, 70164144006, 70164144007

METHOD BLANK: 3873719
Matrix: Water
Associated Lab Samples: 70164144003, 70164144004, 70164144005, 70164144006, 70164144007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	03/08/21 18:16	
Perfluoroheptanoic acid	ng/L	ND	2.0	03/08/21 18:16	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	03/08/21 18:16	
Perfluorononanoic acid	ng/L	ND	2.0	03/08/21 18:16	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	03/08/21 18:16	
Perfluorooctanoic acid	ng/L	ND	2.0	03/08/21 18:16	
13C2-PFDA (S)	%	98	70-130	03/08/21 18:16	
13C2-PFHxA (S)	%	100	70-130	03/08/21 18:16	
HFPO-DAS (S)	%	95	70-130	03/08/21 18:16	

LABORATORY CONTROL SAMPLE: 3873720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	6.8	96	70-130	
Perfluoroheptanoic acid	ng/L	8	7.9	99	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.2	98	70-130	
Perfluorononanoic acid	ng/L	8	7.1	89	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	7.6	103	70-130	
Perfluorooctanoic acid	ng/L	8	8.1	101	70-130	
13C2-PFDA (S)	%			97	70-130	
13C2-PFHxA (S)	%			101	70-130	
HFPO-DAS (S)	%			95	70-130	

LABORATORY CONTROL SAMPLE: 3873721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.6J	88	50-150	
Perfluoroheptanoic acid	ng/L	2	2.3	115	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.9J	105	50-150	
Perfluorononanoic acid	ng/L	2	ND	92	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	2.3	122	50-150	
Perfluorooctanoic acid	ng/L	2	1.9J	96	50-150	
13C2-PFDA (S)	%			101	70-130	
13C2-PFHxA (S)	%			92	70-130	
HFPO-DAS (S)	%			76	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

MATRIX SPIKE SAMPLE: 3873722

Parameter	Units	70163952001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.0	7	6.9	97	70-130	
Perfluoroheptanoic acid	ng/L	<2.0	7.9	9.1	113	70-130	
Perfluorohexanesulfonic acid	ng/L	<2.0	7.2	7.0	97	70-130	
Perfluorononanoic acid	ng/L	<2.0	7.9	6.6	83	70-130	
Perfluorooctanesulfonic acid	ng/L	<2.0	7.3	7.1	96	70-130	
Perfluorooctanoic acid	ng/L	<2.0	7.9	7.8	95	70-130	
13C2-PFDA (S)	%				93	70-130	
13C2-PFHxA (S)	%				111	70-130	
HFPO-DAS (S)	%				105	70-130	

SAMPLE DUPLICATE: 3873723

Parameter	Units	70163952004 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.0	<2.0		30	
Perfluoroheptanoic acid	ng/L	<2.0	<2.0		30	
Perfluorohexanesulfonic acid	ng/L	<2.0	<2.0		30	
Perfluorononanoic acid	ng/L	<2.0	<2.0		30	
Perfluorooctanesulfonic acid	ng/L	<2.0	<2.0		30	
Perfluorooctanoic acid	ng/L	<2.0	<2.0		30	
13C2-PFDA (S)	%	90	92			
13C2-PFHxA (S)	%	103	103			
HFPO-DAS (S)	%	101	99			

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QUALIFIERS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

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.

SAMPLE QUALIFIERS

Sample: 70164144002
[1] RUN TO WASTE
Sample: 70164144004
[1] RUN TO WASTE
Sample: 70164144006
[1] RUN TO WASTE
Sample: 70164144007
[1] RUN TO WASTE

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164144

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70164144001	**N-00198**	EPA 522	199089	EPA 522	199125
70164144002	**N-08043**	EPA 522	199089	EPA 522	199125
70164144003	**N-06092**	EPA 522	199089	EPA 522	199125
70164144004	**N-06093**	EPA 522	199328	EPA 522	199405
70164144005	**N-12795**	EPA 522	199328	EPA 522	199405
70164144006	**N-07772**	EPA 522	199328	EPA 522	199405
70164144007	**N-07773**	EPA 522	199328	EPA 522	199405
70164144001	**N-00198**	EPA 537.1	710469	EPA 537.1	711012
70164144002	**N-08043**	EPA 537.1	710469	EPA 537.1	711012
70164144003	**N-06092**	EPA 537.1	710618	EPA 537.1	710727
70164144004	**N-06093**	EPA 537.1	710618	EPA 537.1	710727
70164144005	**N-12795**	EPA 537.1	710618	EPA 537.1	710727
70164144006	**N-07772**	EPA 537.1	710618	EPA 537.1	710727
70164144007	**N-07773**	EPA 537.1	710618	EPA 537.1	710727

WO#: 70164144

70164144

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 3/1/21

Collected By: CS

Accepted By: Cerstatie Prell 3/1/21 13:06

Cooler Temp: 10.5 °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.
3/1/21 8:10 Am	PW	Ran to system Well #3 H 00198	RW		RO			1,4 Dioxane	001
3/1/21 9:05 Am	PW	Ran to waste Well 23 H-05043	RW		RO			1,4 Dioxane	002
3/1/21 9:25 Am	PW	Ran to system Well 12 H 06092	RW		RO			1,4 Dioxane	003
3/1/21 9:50 Am	PW	Ran to waste Well 13 H 06093	RW		RO			1,4 Dioxane	004
3/1/21 10:15 Am	PW	Ran to system Well 21 H-12795	RW		RO			1,4 Dioxane	005
3/1/21 11:07 Am	PW	Ran to waste Well 18 H-07772	RW		RO			1,4 Dioxane	006
3/1/21 11:45 Am	PW	Ran to waste Well 19 H 07773	RW		RO			1,4 Dioxane	007

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

13:06

Date: 3/1/21 3/1/21

Collected By: CS

Accepted By: Constantine Paeli

Cooler Temp: 10.5 °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) 921-8260

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.
3/1/21 8:10 Am	PW	Run to system Well 3 H-00196	RW		RO			PFOS / PFOA	
3/1/21 9:05 Am	PW	Run to waste Well 23 H-08043	RW		RO			PFOS / PFOA	
3/1/21 9:25 Am	PW	Run to system Well 12 H-06092	RW		RO			PFOS / PFOA	
3/1/21 9:50 Am	PW	Run to waste Well 13 H-06093	RW		RO			PFOS / PFOA	
3/1/21 10:15 Am	PW	Run to system Well 21 H-12795	RW		RO			PFOS / PFOA	
3/1/21 11:07 Am	PW	Run to waste Well 18 H-07772	RW		RO			PFOS / PFOA	
3/1/21 11:45 Am	PW	Run to waste Well 19 H-07773	RW		RO			PFOS / PFOA	

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70164144
PM: JSA Due Date: 03/11/21
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: -0.2

Cooler Temperature(°C): 10.5 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 3/1/21

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

March 10, 2021

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

RE: Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on March 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
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 3/1
Pace Project No.: 70164159

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Delaware Certification # NY10478
Virginia Certification # 460302
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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

SAMPLE SUMMARY

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70164159001	**N-08713**	Drinking Water	03/01/21 09:03	03/01/21 13:06
70164159002	**N-14003**	Drinking Water	03/01/21 09:12	03/01/21 13:06
70164159003	**N-05201**	Drinking Water	03/01/21 09:39	03/01/21 13:06
70164159004	**N-03474**	Drinking Water	03/01/21 10:12	03/01/21 13:06
70164159005	**N-07446**	Drinking Water	03/01/21 10:28	03/01/21 13:06
70164159006	**N-03475**	Drinking Water	03/01/21 10:40	03/01/21 13:06
70164159007	**N-11107**	Drinking Water	03/01/21 11:03	03/01/21 13:06
70164159008	**N-11295**	Drinking Water	03/01/21 11:21	03/01/21 13:06
70164159009	**N-07781**	Drinking Water	03/01/21 11:42	03/01/21 13:06
70164159010	**N-08355**	Drinking Water	03/01/21 12:10	03/01/21 13:06
70164159011	**N-13119**	Drinking Water	03/01/21 12:20	03/01/21 13:06

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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SAMPLE ANALYTE COUNT

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70164159001	**N-08713**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70164159002	**N-14003**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70164159003	**N-05201**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70164159004	**N-03474**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70164159005	**N-07446**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70164159006	**N-03475**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70164159007	**N-11107**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70164159008	**N-11295**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70164159009	**N-07781**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70164159010	**N-08355**	EPA 522	TJD	2	PACE-MV
		EPA 537.1	CMB	10	PASI-O
70164159011	**N-13119**	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 3/1
Pace Project No.: 70164159

Sample: N-08713 **Lab ID: 70164159001** Collected: 03/01/21 09:03 Received: 03/01/21 13:06 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)	Analytical Method: EPA 522 Preparation Method: EPA 522								
	Pace Analytical Services - Melville								
1,4-Dioxane (p-Dioxane)	**0.20**	ug/L	0.020		1	03/09/21 09:07	03/09/21 19:05	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	03/09/21 09:07	03/09/21 19:05		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.1**	ng/L	2.1		1	03/05/21 09:55	03/07/21 02:06	375-73-5	
Perfluoroheptanoic acid	**<2.1**	ng/L	2.1		1	03/05/21 09:55	03/07/21 02:06	375-85-9	
Perfluorohexanesulfonic acid	**<2.1**	ng/L	2.1		1	03/05/21 09:55	03/07/21 02:06	355-46-4	
Perfluorononanoic acid	**<2.1**	ng/L	2.1		1	03/05/21 09:55	03/07/21 02:06	375-95-1	
Perfluorooctanesulfonic acid	**<2.1**	ng/L	2.1	10	1	03/05/21 09:55	03/07/21 02:06	1763-23-1	
Perfluorooctanoic acid	**<2.1**	ng/L	2.1	10	1	03/05/21 09:55	03/07/21 02:06	335-67-1	
Surrogates									
13C2-PFDA (S)	90	%	70-130		1	03/05/21 09:55	03/07/21 02:06		
13C2-PFHxA (S)	91	%	70-130		1	03/05/21 09:55	03/07/21 02:06		
NEtFOSAA-d5 (S)	95	%	70-130		1	03/05/21 09:55	03/07/21 02:06		
HFPO-DAS (S)	87	%	70-130		1	03/05/21 09:55	03/07/21 02:06		

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Sample: N-14003 **Lab ID: 70164159002** Collected: 03/01/21 09:12 Received: 03/01/21 13:06 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)	**0.096**	ug/L	0.020		1	03/09/21 09:07	03/09/21 19:38	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	03/09/21 09:07	03/09/21 19:38		
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	03/05/21 09:55	03/07/21 03:01	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	03/05/21 09:55	03/07/21 03:01	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	03/05/21 09:55	03/07/21 03:01	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	03/05/21 09:55	03/07/21 03:01	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	03/05/21 09:55	03/07/21 03:01	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	03/05/21 09:55	03/07/21 03:01	335-67-1	
Surrogates									
13C2-PFDA (S)	91	%	70-130		1	03/05/21 09:55	03/07/21 03:01		
13C2-PFHxA (S)	97	%	70-130		1	03/05/21 09:55	03/07/21 03:01		
NEtFOSAA-d5 (S)	93	%	70-130		1	03/05/21 09:55	03/07/21 03:01		
HFPO-DAS (S)	78	%	70-130		1	03/05/21 09:55	03/07/21 03:01		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Sample: N-05201 **Lab ID: 70164159003** Collected: 03/01/21 09:39 Received: 03/01/21 13:06 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	03/09/21 09:07	03/09/21 19:55	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	03/09/21 09:07	03/09/21 19:55		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.1**	ng/L	2.1		1	03/05/21 09:55	03/07/21 03:20	375-73-5	
Perfluoroheptanoic acid	**<2.1**	ng/L	2.1		1	03/05/21 09:55	03/07/21 03:20	375-85-9	
Perfluorohexanesulfonic acid	**<2.1**	ng/L	2.1		1	03/05/21 09:55	03/07/21 03:20	355-46-4	
Perfluorononanoic acid	**<2.1**	ng/L	2.1		1	03/05/21 09:55	03/07/21 03:20	375-95-1	
Perfluorooctanesulfonic acid	**<2.1**	ng/L	2.1	10	1	03/05/21 09:55	03/07/21 03:20	1763-23-1	
Perfluorooctanoic acid	**<2.1**	ng/L	2.1	10	1	03/05/21 09:55	03/07/21 03:20	335-67-1	
Surrogates									
13C2-PFDA (S)	91	%	70-130		1	03/05/21 09:55	03/07/21 03:20		
13C2-PFHxA (S)	89	%	70-130		1	03/05/21 09:55	03/07/21 03:20		
NEtFOSAA-d5 (S)	89	%	70-130		1	03/05/21 09:55	03/07/21 03:20		
HFPO-DAS (S)	71	%	70-130		1	03/05/21 09:55	03/07/21 03:20		

Pace Analytical Services, LLC
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(631)694-3040

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Sample: N-03474 **Lab ID: 70164159004** Collected: 03/01/21 10:12 Received: 03/01/21 13:06 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)	**0.11**	ug/L	0.020		1	03/09/21 09:07	03/09/21 20:11	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	03/09/21 09:07	03/09/21 20:11		
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	03/05/21 09:55	03/07/21 03:38	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 03:38	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 03:38	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 03:38	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 09:55	03/07/21 03:38	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 09:55	03/07/21 03:38	335-67-1	
Surrogates									
13C2-PFDA (S)	87	%	70-130		1	03/05/21 09:55	03/07/21 03:38		
13C2-PFHxA (S)	95	%	70-130		1	03/05/21 09:55	03/07/21 03:38		
NEtFOSAA-d5 (S)	88	%	70-130		1	03/05/21 09:55	03/07/21 03:38		
HFPO-DAS (S)	86	%	70-130		1	03/05/21 09:55	03/07/21 03:38		

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

ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Sample: N-07446 **Lab ID: 70164159005** Collected: 03/01/21 10:28 Received: 03/01/21 13:06 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)	**0.042**	ug/L	0.020		1	03/09/21 09:07	03/09/21 20:28	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	03/09/21 09:07	03/09/21 20:28		
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	03/05/21 09:55	03/07/21 03:57	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 03:57	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 03:57	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 03:57	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 09:55	03/07/21 03:57	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 09:55	03/07/21 03:57	335-67-1	
Surrogates									
13C2-PFDA (S)	87	%	70-130		1	03/05/21 09:55	03/07/21 03:57		
13C2-PFHxA (S)	91	%	70-130		1	03/05/21 09:55	03/07/21 03:57		
NEtFOSAA-d5 (S)	95	%	70-130		1	03/05/21 09:55	03/07/21 03:57		
HFPO-DAS (S)	76	%	70-130		1	03/05/21 09:55	03/07/21 03:57		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Sample: N-03475 **Lab ID: 70164159006** Collected: 03/01/21 10:40 Received: 03/01/21 13:06 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)	**0.060**	ug/L	0.020		1	03/09/21 09:07	03/09/21 20:44	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	87	%	70-130		1	03/09/21 09:07	03/09/21 20:44		
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	03/05/21 09:55	03/07/21 04:15	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	03/05/21 09:55	03/07/21 04:15	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	03/05/21 09:55	03/07/21 04:15	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	03/05/21 09:55	03/07/21 04:15	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	03/05/21 09:55	03/07/21 04:15	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	03/05/21 09:55	03/07/21 04:15	335-67-1	
Surrogates									
13C2-PFDA (S)	89	%	70-130		1	03/05/21 09:55	03/07/21 04:15		
13C2-PFHxA (S)	94	%	70-130		1	03/05/21 09:55	03/07/21 04:15		
NEtFOSAA-d5 (S)	85	%	70-130		1	03/05/21 09:55	03/07/21 04:15		
HFPO-DAS (S)	84	%	70-130		1	03/05/21 09:55	03/07/21 04:15		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Sample: N-11107 **Lab ID: 70164159007** Collected: 03/01/21 11:03 Received: 03/01/21 13:06 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)	**0.11**	ug/L	0.020		1	03/09/21 09:07	03/09/21 21:00	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	91	%	70-130		1	03/09/21 09:07	03/09/21 21:00		
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	03/05/21 09:55	03/07/21 04:34	375-73-5	
Perfluoroheptanoic acid	**<1.9**	ng/L	1.9		1	03/05/21 09:55	03/07/21 04:34	375-85-9	
Perfluorohexanesulfonic acid	**<1.9**	ng/L	1.9		1	03/05/21 09:55	03/07/21 04:34	355-46-4	
Perfluorononanoic acid	**<1.9**	ng/L	1.9		1	03/05/21 09:55	03/07/21 04:34	375-95-1	
Perfluorooctanesulfonic acid	**<1.9**	ng/L	1.9	10	1	03/05/21 09:55	03/07/21 04:34	1763-23-1	
Perfluorooctanoic acid	**<1.9**	ng/L	1.9	10	1	03/05/21 09:55	03/07/21 04:34	335-67-1	
Surrogates									
13C2-PFDA (S)	93	%	70-130		1	03/05/21 09:55	03/07/21 04:34		
13C2-PFHxA (S)	96	%	70-130		1	03/05/21 09:55	03/07/21 04:34		
NEtFOSAA-d5 (S)	89	%	70-130		1	03/05/21 09:55	03/07/21 04:34		
HFPO-DAS (S)	85	%	70-130		1	03/05/21 09:55	03/07/21 04:34		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Sample: N-11295 **Lab ID: 70164159008** Collected: 03/01/21 11:21 Received: 03/01/21 13:06 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)	**0.13**	ug/L	0.020		1	03/09/21 09:07	03/09/21 21:17	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	03/09/21 09:07	03/09/21 21:17		
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	03/05/21 09:55	03/07/21 04:52	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 04:52	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 04:52	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 04:52	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 09:55	03/07/21 04:52	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 09:55	03/07/21 04:52	335-67-1	
Surrogates									
13C2-PFDA (S)	92	%	70-130		1	03/05/21 09:55	03/07/21 04:52		
13C2-PFHxA (S)	94	%	70-130		1	03/05/21 09:55	03/07/21 04:52		
NEtFOSAA-d5 (S)	96	%	70-130		1	03/05/21 09:55	03/07/21 04:52		
HFPO-DAS (S)	80	%	70-130		1	03/05/21 09:55	03/07/21 04:52		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Sample: N-07781 **Lab ID: 70164159009** Collected: 03/01/21 11:42 Received: 03/01/21 13:06 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)	**0.50**	ug/L	0.020		1	03/09/21 09:07	03/09/21 21:33	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	03/09/21 09:07	03/09/21 21:33		
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	03/05/21 09:55	03/07/21 05:11	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 05:11	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 05:11	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 05:11	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 09:55	03/07/21 05:11	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 09:55	03/07/21 05:11	335-67-1	
Surrogates									
13C2-PFDA (S)	94	%	70-130		1	03/05/21 09:55	03/07/21 05:11		
13C2-PFHxA (S)	96	%	70-130		1	03/05/21 09:55	03/07/21 05:11		
NEtFOSAA-d5 (S)	93	%	70-130		1	03/05/21 09:55	03/07/21 05:11		
HFPO-DAS (S)	84	%	70-130		1	03/05/21 09:55	03/07/21 05:11		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Sample: N-08355 **Lab ID: 70164159010** Collected: 03/01/21 12:10 Received: 03/01/21 13:06 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)	**11.2**	ug/L	0.20		10	03/09/21 09:07	03/10/21 01:53	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	83	%	70-130		10	03/09/21 09:07	03/10/21 01:53		
537.1 PFAS Compounds, Water	Analytical Method: EPA 537.1 Preparation Method: EPA 537.1								
	Pace Analytical Services - Ormond Beach								
Perfluorobutanesulfonic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 05:30	375-73-5	
Perfluoroheptanoic acid	**7.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 05:30	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 05:30	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/07/21 05:30	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 09:55	03/07/21 05:30	1763-23-1	
Perfluorooctanoic acid	**2.9**	ng/L	2.0	10	1	03/05/21 09:55	03/07/21 05:30	335-67-1	
Surrogates									
13C2-PFDA (S)	92	%	70-130		1	03/05/21 09:55	03/07/21 05:30		
13C2-PFHxA (S)	92	%	70-130		1	03/05/21 09:55	03/07/21 05:30		
NEtFOSAA-d5 (S)	96	%	70-130		1	03/05/21 09:55	03/07/21 05:30		
HFPO-DAS (S)	87	%	70-130		1	03/05/21 09:55	03/07/21 05:30		

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ANALYTICAL RESULTS

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

Sample: N-13119 **Lab ID: 70164159011** Collected: 03/01/21 12:20 Received: 03/01/21 13:06 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)	**1.2**	ug/L	0.020		1	03/09/21 09:07	03/09/21 22:05	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	03/09/21 09:07	03/09/21 22:05		
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	03/05/21 09:55	03/09/21 02:04	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/09/21 02:04	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/09/21 02:04	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	03/05/21 09:55	03/09/21 02:04	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 09:55	03/09/21 02:04	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	03/05/21 09:55	03/09/21 02:04	335-67-1	
Surrogates									
13C2-PFDA (S)	89	%	70-130		1	03/05/21 09:55	03/09/21 02:04		
13C2-PFHxA (S)	107	%	70-130		1	03/05/21 09:55	03/09/21 02:04		
HFPO-DAS (S)	92	%	70-130		1	03/05/21 09:55	03/09/21 02:04		

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

QC Batch: 199328
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70164159001, 70164159002, 70164159003, 70164159004, 70164159005, 70164159006, 70164159007, 70164159008, 70164159009, 70164159010, 70164159011

METHOD BLANK: 980351
Matrix: Drinking Water
Associated Lab Samples: 70164159001, 70164159002, 70164159003, 70164159004, 70164159005, 70164159006, 70164159007, 70164159008, 70164159009, 70164159010, 70164159011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	03/09/21 16:38	
1,4-Dioxane-d8 (S)	%	92	70-130	03/09/21 16:38	

LABORATORY CONTROL SAMPLE: 980352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.7	85	70-130	
1,4-Dioxane-d8 (S)	%			88	70-130	

MATRIX SPIKE SAMPLE: 980353

Parameter	Units	70164144004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.20	2	1.9	84	70-130	
1,4-Dioxane-d8 (S)	%				88	70-130	

SAMPLE DUPLICATE: 980354

Parameter	Units	70164144005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.37	0.38	4	20	
1,4-Dioxane-d8 (S)	%	90	93		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

QC Batch: 710323
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: 70164159001, 70164159002, 70164159003, 70164159004, 70164159005, 70164159006, 70164159007, 70164159008, 70164159009, 70164159010

METHOD BLANK: 3871505
Matrix: Water
Associated Lab Samples: 70164159001, 70164159002, 70164159003, 70164159004, 70164159005, 70164159006, 70164159007, 70164159008, 70164159009, 70164159010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	03/06/21 22:05	
Perfluoroheptanoic acid	ng/L	ND	2.0	03/06/21 22:05	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	03/06/21 22:05	
Perfluorononanoic acid	ng/L	ND	2.0	03/06/21 22:05	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	03/06/21 22:05	
Perfluorooctanoic acid	ng/L	ND	2.0	03/06/21 22:05	
13C2-PFDA (S)	%	88	70-130	03/06/21 22:05	
13C2-PFHxA (S)	%	92	70-130	03/06/21 22:05	
HFPO-DAS (S)	%	82	70-130	03/06/21 22:05	
NEtFOSAA-d5 (S)	%	87	70-130	03/06/21 22:05	

LABORATORY CONTROL SAMPLE: 3871506

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	7.3	103	70-130	
Perfluoroheptanoic acid	ng/L	8	8.1	102	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.4	101	70-130	
Perfluorononanoic acid	ng/L	8	7.2	90	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	6.7	91	70-130	
Perfluorooctanoic acid	ng/L	8	7.4	92	70-130	
13C2-PFDA (S)	%			90	70-130	
13C2-PFHxA (S)	%			95	70-130	
HFPO-DAS (S)	%			89	70-130	
NEtFOSAA-d5 (S)	%			92	70-130	

LABORATORY CONTROL SAMPLE: 3871507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.7J	97	50-150	
Perfluoroheptanoic acid	ng/L	2	ND	98	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.8J	101	50-150	
Perfluorononanoic acid	ng/L	2	ND	92	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.6J	89	50-150	
Perfluorooctanoic acid	ng/L	2	1.6J	80	50-150	
13C2-PFDA (S)	%			93	70-130	
13C2-PFHxA (S)	%			90	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

LABORATORY CONTROL SAMPLE: 3871507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
HFPO-DAS (S)	%			74	70-130	
NEtFOSAA-d5 (S)	%			90	70-130	

MATRIX SPIKE SAMPLE: 3871508

Parameter	Units	70164260001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	1.8	<2.0	102	70-130	
Perfluoroheptanoic acid	ng/L	<1.9	2	2.6	90	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	1.8	2.5	96	70-130	
Perfluorononanoic acid	ng/L	<1.9	2	2.7	101	70-130	
Perfluorooctanesulfonic acid	ng/L	2.0	1.9	3.5	84	70-130	
Perfluorooctanoic acid	ng/L	<1.9	2	3.6	97	70-130	
13C2-PFDA (S)	%				89	70-130	
13C2-PFHxA (S)	%				92	70-130	
HFPO-DAS (S)	%				85	70-130	
NEtFOSAA-d5 (S)	%				91	70-130	

SAMPLE DUPLICATE: 3871509

Parameter	Units	70164159001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.1	<2.0		30	
Perfluoroheptanoic acid	ng/L	<2.1	<2.0		30	
Perfluorohexanesulfonic acid	ng/L	<2.1	<2.0		30	
Perfluorononanoic acid	ng/L	<2.1	<2.0		30	
Perfluorooctanesulfonic acid	ng/L	<2.1	<2.0		30	
Perfluorooctanoic acid	ng/L	<2.1	<2.0		30	
13C2-PFDA (S)	%	90	93			
13C2-PFHxA (S)	%	91	92			
HFPO-DAS (S)	%	87	77			
NEtFOSAA-d5 (S)	%	95	91			

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QUALITY CONTROL DATA

Project: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

QC Batch: 710325
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: 70164159011

METHOD BLANK: 3871510
Matrix: Water
Associated Lab Samples: 70164159011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	03/09/21 01:17	
Perfluoroheptanoic acid	ng/L	ND	2.0	03/09/21 01:17	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	03/09/21 01:17	
Perfluorononanoic acid	ng/L	ND	2.0	03/09/21 01:17	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	03/09/21 01:17	
Perfluorooctanoic acid	ng/L	ND	2.0	03/09/21 01:17	
13C2-PFDA (S)	%	84	70-130	03/09/21 01:17	
13C2-PFHxA (S)	%	96	70-130	03/09/21 01:17	
HFPO-DAS (S)	%	85	70-130	03/09/21 01:17	

LABORATORY CONTROL SAMPLE: 3871511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	142	132	93	70-130	
Perfluoroheptanoic acid	ng/L	160	147	92	70-130	
Perfluorohexanesulfonic acid	ng/L	146	138	95	70-130	
Perfluorononanoic acid	ng/L	160	116	73	70-130	
Perfluorooctanesulfonic acid	ng/L	148	131	88	70-130	
Perfluorooctanoic acid	ng/L	160	135	84	70-130	
13C2-PFDA (S)	%			84	70-130	
13C2-PFHxA (S)	%			98	70-130	
HFPO-DAS (S)	%			92	70-130	

LABORATORY CONTROL SAMPLE: 3871512

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	ND	100	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.7J	92	50-150	
Perfluorononanoic acid	ng/L	2	ND	80	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	1.7J	94	50-150	
Perfluorooctanoic acid	ng/L	2	1.9J	93	50-150	
13C2-PFDA (S)	%			88	70-130	
13C2-PFHxA (S)	%			96	70-130	
HFPO-DAS (S)	%			94	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: 1,4 DIOXANE/PFAS 3/1
Pace Project No.: 70164159

MATRIX SPIKE SAMPLE: 3871513

Parameter	Units	70164159011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.0	7	7.5	104	70-130	
Perfluoroheptanoic acid	ng/L	<2.0	7.9	7.7	90	70-130	
Perfluorohexanesulfonic acid	ng/L	<2.0	7.2	7.4	95	70-130	
Perfluorononanoic acid	ng/L	<2.0	7.9	6.1	75	70-130	
Perfluorooctanesulfonic acid	ng/L	<2.0	7.3	7.4	96	70-130	
Perfluorooctanoic acid	ng/L	<2.0	7.9	8.5	95	70-130	
13C2-PFDA (S)	%				91	70-130	
13C2-PFHxA (S)	%				108	70-130	
HFPO-DAS (S)	%				103	70-130	

SAMPLE DUPLICATE: 3871514

Parameter	Units	70163961001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<2.1	<2.0		30	
Perfluoroheptanoic acid	ng/L	<2.1	<2.0		30	
Perfluorohexanesulfonic acid	ng/L	<2.1	<2.0		30	
Perfluorononanoic acid	ng/L	<2.1	<2.0		30	
Perfluorooctanesulfonic acid	ng/L	2.4	2.3	3	30	
Perfluorooctanoic acid	ng/L	<2.1	<2.0		30	
13C2-PFDA (S)	%	95	88			
13C2-PFHxA (S)	%	115	112			
HFPO-DAS (S)	%	110	102			

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 3/1
Pace Project No.: 70164159

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.

SAMPLE QUALIFIERS

Sample: 70164159001
[1] RUN TO WASTE
Sample: 70164159003
[1] RUN TO WASTE
Sample: 70164159004
[1] RUN TO WASTE
Sample: 70164159005
[1] RUN TO WASTE
Sample: 70164159006
[1] RUN TO WASTE
Sample: 70164159007
[1] RUN TO WASTE
Sample: 70164159008
[1] RUN TO WASTE
Sample: 70164159010
[1] RUN TO WASTE
Sample: 70164159011
[1] 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 3/1
Pace Project No.: 70164159

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70164159001	**N-08713**	EPA 522	199328	EPA 522	199405
70164159002	**N-14003**	EPA 522	199328	EPA 522	199405
70164159003	**N-05201**	EPA 522	199328	EPA 522	199405
70164159004	**N-03474**	EPA 522	199328	EPA 522	199405
70164159005	**N-07446**	EPA 522	199328	EPA 522	199405
70164159006	**N-03475**	EPA 522	199328	EPA 522	199405
70164159007	**N-11107**	EPA 522	199328	EPA 522	199405
70164159008	**N-11295**	EPA 522	199328	EPA 522	199405
70164159009	**N-07781**	EPA 522	199328	EPA 522	199405
70164159010	**N-08355**	EPA 522	199328	EPA 522	199405
70164159011	**N-13119**	EPA 522	199328	EPA 522	199405
70164159001	**N-08713**	EPA 537.1	710323	EPA 537.1	710651
70164159002	**N-14003**	EPA 537.1	710323	EPA 537.1	710651
70164159003	**N-05201**	EPA 537.1	710323	EPA 537.1	710651
70164159004	**N-03474**	EPA 537.1	710323	EPA 537.1	710651
70164159005	**N-07446**	EPA 537.1	710323	EPA 537.1	710651
70164159006	**N-03475**	EPA 537.1	710323	EPA 537.1	710651
70164159007	**N-11107**	EPA 537.1	710323	EPA 537.1	710651
70164159008	**N-11295**	EPA 537.1	710323	EPA 537.1	710651
70164159009	**N-07781**	EPA 537.1	710323	EPA 537.1	710651
70164159010	**N-08355**	EPA 537.1	710323	EPA 537.1	710651
70164159011	**N-13119**	EPA 537.1	710325	EPA 537.1	710997

WO# : 70164159

70164159

1747

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

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 3/1/21 (W)

Collected By: TK

Accepted By: Courstatine Pacelli 13:06 3/1/21

Cooler Temp: 10.5 °C

☐ WELL OFF LINE

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water Dist.

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.
3-1-21 09:03	PW	well #27 N-08713	Run to Waste	RW		RO	Ø		1,4- Dioxane	
3-1-21 09:12	PW	well #28 N-14003	Run to System	RW		RO	Ø		" "	
3-1-21 09:39	PW	well #11 N-05201	Run to Waste	RW		RO	Ø		" "	
3-1-21 10:12	PW	well #6 N-03474	Run to Waste	RW		RO	Ø		" "	
3-1-21 10:28	PW	well #16 N-07446	Run to Waste	RW		RO	Ø		" "	
3-1-21 10:40	PW	well #7 N-03475	Run to Waste	RW		RO	Ø		" "	
3-1-21 11:03	PW	well #29 N-11107	Run to Waste	RW		RO	Ø		" "	
3-1-21 11:21	PW	well #30 N-11295	Run to Waste	RW		RO	Ø		" "	
3-1-21 11:42	PW	well #22 N-07781	Run to System	RW		RO	Ø		" "	
3-1-21 12:10	PW	well #25 N-08355	Run to Waste	RW		RO	Ø		" "	
3-1-21 12:20	PW	well #26 N-13119	Run to Waste	RW		RO	Ø		1,4- Dioxane	

Remarks:

WO#: 70164159
PM: JSA Due Date: 03/11/21
CLIENT: JWD

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 3-1-21 13:06 3/1/21
Collected By: TK
Accepted By: Constantine Paeli @
Cooler Temp: 10.5 °C

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

Client Info:
Name or Code: Jericho Water Dist
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.
3-1-21 09:03	PW	well #27 N-08713	Run to Waste	RW		RO	Ø		PFOS / PFOA	
3-1-21 09:12	PW	well #28 N-14003	Run to System	RW		RO	Ø		" "	
3-1-21 09:39	PW	well #11 N-05201	Run to Waste	RW		RO	Ø		" "	
3-1-21 10:12	PW	well #6 N-03474	Run to Waste	RW		RO	Ø		" "	
3-1-21 10:28	PW	well #16 N-07446	Run to Waste	RW		RO	Ø		" "	
3-1-21 10:40	PW	well #7 N-03475	Run to Waste	RW		RO	Ø		" "	
3-1-21 11:03	PW	well #29 N-11107	Run to Waste	RW		RO	Ø		" "	
3-1-21 11:21	PW	well #30 N-11295	Run to Waste	RW		RO	Ø		" "	
3-1-21 11:42	PW	well #22 N-07781	Run to System	RW		RO	Ø		" "	
3-1-21 12:10	PW	well #25 N-08305	Run to Waste	RW		RO	Ø		" "	
3-1-21 12:20	PW	well #26 N-B119	Run to Waste	RW		RO	Ø		PFOS / PFOA	

Remarks:

Pace Analytical®

Sample Condition Upon Re

WO#: 70164159

PM: JSA **Due Date: 03/11/21**
CLIENT: JWD

Client Name: Jerch W.D

Proj

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: -0.2

Cooler Temperature(°C): 10.5 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 CH 3/1/21

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: CH 3/1/21

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: -Pace Containers Used:	☑ Yes ☑ Yes	☐ No ☐ No		9.
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 # 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 ☐ Yes	☐ No ☐ No	☑ N/A ☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl 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: Trip Blank Custody Seals Present Pace Trip Blank Lot # (if applicable):_____	☐ Yes ☐ Yes	☐ No ☐ No	☑ N/A ☑ N/A	17.

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

March 12, 2021

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

RE: Project: 1,4/PFAS 3/2
Pace Project No.: 70164263

Dear Peter Logan:

Enclosed are the analytical results for sample(s) received by the laboratory on March 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
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/PFAS 3/2
Pace Project No.: 70164263

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

Delaware Certification # NY10478
Virginia Certification # 460302
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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

SAMPLE SUMMARY

Project: 1,4/PFAS 3/2
Pace Project No.: 70164263

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70164263001	**N-06651**	Drinking Water	03/02/21 09:45	03/02/21 10:30

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

SAMPLE ANALYTE COUNT

Project: 1,4/PFAS 3/2
Pace Project No.: 70164263

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70164263001	**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/PFAS 3/2
Pace Project No.: 70164263

Sample: N-06651 **Lab ID: 70164263001** Collected: 03/02/21 09:45 Received: 03/02/21 10:30 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	03/11/21 10:05	03/11/21 20:07	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	94	%	70-130		1	03/11/21 10:05	03/11/21 20:07		
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	03/08/21 11:58	03/10/21 00:22	375-73-5	
Perfluoroheptanoic acid	**<2.0**	ng/L	2.0		1	03/08/21 11:58	03/10/21 00:22	375-85-9	
Perfluorohexanesulfonic acid	**<2.0**	ng/L	2.0		1	03/08/21 11:58	03/10/21 00:22	355-46-4	
Perfluorononanoic acid	**<2.0**	ng/L	2.0		1	03/08/21 11:58	03/10/21 00:22	375-95-1	
Perfluorooctanesulfonic acid	**<2.0**	ng/L	2.0	10	1	03/08/21 11:58	03/10/21 00:22	1763-23-1	
Perfluorooctanoic acid	**<2.0**	ng/L	2.0	10	1	03/08/21 11:58	03/10/21 00:22	335-67-1	
Surrogates									
13C2-PFDA (S)	99	%	70-130		1	03/08/21 11:58	03/10/21 00:22		
13C2-PFHxA (S)	93	%	70-130		1	03/08/21 11:58	03/10/21 00:22		
HFPO-DAS (S)	70	%	70-130		1	03/08/21 11:58	03/10/21 00:22		

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

QUALITY CONTROL DATA

Project: 1,4/PFAS 3/2
Pace Project No.: 70164263

QC Batch: 199707
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70164263001

METHOD BLANK: 982374
Matrix: Drinking Water
Associated Lab Samples: 70164263001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	03/11/21 17:56	
1,4-Dioxane-d8 (S)	%	88	70-130	03/11/21 17:56	

LABORATORY CONTROL SAMPLE: 982375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.7	87	70-130	
1,4-Dioxane-d8 (S)	%			90	70-130	

MATRIX SPIKE SAMPLE: 982376

Parameter	Units	70164254002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	2	1.7	86	70-130	
1,4-Dioxane-d8 (S)	%				91	70-130	

SAMPLE DUPLICATE: 982377

Parameter	Units	70164256003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	<0.020		20	
1,4-Dioxane-d8 (S)	%	92	92		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/PFAS 3/2
Pace Project No.: 70164263

QC Batch: 710774
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: 70164263001

METHOD BLANK: 3874284
Matrix: Water
Associated Lab Samples: 70164263001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	03/10/21 12:12	
Perfluoroheptanoic acid	ng/L	ND	2.0	03/10/21 12:12	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	03/10/21 12:12	
Perfluorononanoic acid	ng/L	ND	2.0	03/10/21 12:12	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	03/10/21 12:12	
Perfluorooctanoic acid	ng/L	ND	2.0	03/10/21 12:12	
13C2-PFDA (S)	%	96	70-130	03/10/21 12:12	
13C2-PFHxA (S)	%	84	70-130	03/10/21 12:12	
HFPO-DAS (S)	%	83	70-130	03/10/21 12:12	
NEtFOSAA-d5 (S)	%	78	70-130	03/10/21 12:12	

LABORATORY CONTROL SAMPLE: 3874285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	7.1	6.8	97	70-130	
Perfluoroheptanoic acid	ng/L	8	8.2	102	70-130	
Perfluorohexanesulfonic acid	ng/L	7.3	7.4	101	70-130	
Perfluorononanoic acid	ng/L	8	8.3	104	70-130	
Perfluorooctanesulfonic acid	ng/L	7.4	7.3	99	70-130	
Perfluorooctanoic acid	ng/L	8	7.7	96	70-130	
13C2-PFDA (S)	%			101	70-130	
13C2-PFHxA (S)	%			94	70-130	
HFPO-DAS (S)	%			82	70-130	
NEtFOSAA-d5 (S)	%			87	70-130	

LABORATORY CONTROL SAMPLE: 3874286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	1.8	1.7J	95	50-150	
Perfluoroheptanoic acid	ng/L	2	2.2	110	50-150	
Perfluorohexanesulfonic acid	ng/L	1.8	1.9J	103	50-150	
Perfluorononanoic acid	ng/L	2	2.1	106	50-150	
Perfluorooctanesulfonic acid	ng/L	1.9	2.0	110	50-150	
Perfluorooctanoic acid	ng/L	2	2.0	100	50-150	
13C2-PFDA (S)	%			100	70-130	
13C2-PFHxA (S)	%			94	70-130	
HFPO-DAS (S)	%			85	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: 1,4/PFAS 3/2
Pace Project No.: 70164263

LABORATORY CONTROL SAMPLE: 3874286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA-d5 (S)	%			85	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3874287 3874288

Parameter	Units	35616104001 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	1.9	1.9	91	91	70-130	1	30	
Perfluoroheptanoic acid	ng/L	ND	1.8	1.8	2.2	2.0	120	114	70-130	6	30	
Perfluorohexanesulfonic acid	ng/L	ND	1.7	1.6	<1.8	1.8	97	103	70-130		30	
Perfluorononanoic acid	ng/L	ND	1.8	1.8	<1.8	1.8	84	102	70-130		30	
Perfluorooctanesulfonic acid	ng/L	ND	1.7	1.7	1.9	<1.8	106	84	70-130		30	
Perfluorooctanoic acid	ng/L	ND	1.8	1.8	1.9	1.9	106	104	70-130	3	30	
13C2-PFDA (S)	%						101	98	70-130			
13C2-PFHxA (S)	%						104	103	70-130			
HFPO-DAS (S)	%						91	96	70-130			
NEtFOSAA-d5 (S)	%						109	99	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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QUALIFIERS

Project: 1,4/PFAS 3/2
Pace Project No.: 70164263

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.

SAMPLE QUALIFIERS

Sample: 70164263001

[1] 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/PFAS 3/2
Pace Project No.: 70164263

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70164263001	**N-06651**	EPA 522	199707	EPA 522	199812
70164263001	**N-06651**	EPA 537.1	710774	EPA 537.1	711301

WO#: 70164263

70164263

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 3/2/21

Collected By: CS

Accepted By: Constantine Pappas

Cooler Temp: 9.2 °C

10:30 ☑ WELL OFF LINE Ran to waste

(B) ☐ WELL RUN TO SYSTEM

3/2/21 ☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water

Address: 125 Convent Rd
Syosset, NY 11791

Phone #: (516)921-8282

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.
3/2/21 9:45 Am	PW	Ran to waste Well 14 H-06657	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: 3/2/21 (B)
Collected By: CS 10:30
Accepted By: Constantine Pacelli 3/2/21
Cooler Temp: 9.2 °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)921-5280
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.
3/2/21 9:45 AM	RW	Ran to waste Well 14 tl-06651	RW		RO			PFOS/PFOA	

Remarks:

Pace Analytical®

Sample Condition Upon Receipt

WO# : 70164263
PM: JSA **Due Date: 03/12/21**
CLIENT: JWD

Client Name: Jericho W.D.

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: -0.2

Cooler Temperature(°C): 9.2 Cooler Temperature Corrected(°C): 9.0

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: CH 3/2/21

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.