July 6, 2023

Jericho Water District
PWS ID No. NY2902831
MCL Deferral for 1,4-Dioxane
Quarterly Report – Second Quarter 2023

Introduction

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

The last three years have been a time of unprecedented disruption in the supply chain of chemical supplies, equipment, infrastructure components, pipe and materials (e.g., steel), and treatment systems. Contractors and water suppliers, locally and nationwide, have been impacted by these issues in completing both small-scale and large-scale projects. Shortages of necessary items have significantly impacted the District, primarily in terms of price increases, decreased availability, and longer lead times. In addition, due to the rapidly changing regulatory environment through an expanded list of contaminants with lower regulatory advisory levels or MCLs, local and state regulators are experiencing a large number of capital project submissions, in addition to their regular responsibilities. This increased workload has led to longer regulatory review times of engineering reports, detailed design plans, and specifications. In many cases, these factors, which are out of the District's control, have caused delays in obtaining final regulatory approval, commencing construction, procuring equipment and necessary components, and conforming to the construction schedules proposed in the District's original application for a deferral.

The District has done everything within its power to adhere to the project schedules approved in the original deferral request, as described in the previous quarterly deferral reports. The wide reach of the impact of supply chain issues and delays was not known at the time of the original compliance deferrals and, as such, these delays were expected to become worse before improving because of increased national demand. Recognizing these exceptional circumstances, the District requested and received a 12-month deferral renewal, which extended our MCL compliance deadline to August 25, 2023.

Despite the challenges of the current supply chain along with the ever-changing regulatory environment, the District has worked tirelessly to preserve the quality of its drinking water. There are currently four different treatment plants being constructed specifically for the removal of 1,4-dioxane from seven District wells. The combined cost of these projects is greater than $50 million and this does not include the other construction projects that the District currently has ongoing to enhance other components of its water infrastructure.

The District's goal, as always, is to provide an adequate supply of potable water to its community and will continue to move forward on these projects to further that goal.

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

Corrective Action Plan Milestones

Wells 9 and 14

Construction of the new treatment plant is nearing completion. All major equipment has been installed and powered. Startup and testing of the new treatment systems will begin soon. It is anticipated the facility will be operational in late summer 2023.

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

Wells 20 and 21

This project is currently in the construction phase. The NCDH and NYSDOH issued approval of the engineering report during August and September 2022 and of the design plans in June and July 2023. Site work has commenced and the granular activated carbon (GAC) equipment has been installed. The existing facility with GAC will operate throughout the summer. The final completion is scheduled for February 2024 although, due to electrical equipment supply chain delays, this may not be possible. The District is working with its contractor, vendors, and manufacturers to bring the project to completion as quickly as possible to be able to return the site to operation prior to peak pumping season 2024.

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

This project is currently in the pre-construction phase. The NCDH and NYSDOH issued approval of the engineering report in October 2022. The District is currently responding to comments on the contract documents from the NCDH and NYSDOH. The construction of the AOP facility is expected to begin no sooner than late August 2023 at which point the well will be removed from service for the duration of the contract. Construction is anticipated to be completed and the facility returned to service prior to the end of 2024.

Although it has been granted a deferral, JWD continues to monitor and minimize the usage of this well to the greatest extent practicable while meeting system demands.

Wells 25 and 26 (Kirby Lane Facility)

This project is currently in the construction phase. The District received NCDH approval of the engineering report in September 2021. The District received NCDH approval of the detailed design documents on July 12, 2022 and NYSDOH approval of the engineering report and detailed design documents on July 25, 2022. Construction has been progressing on-site. The building interior work is ongoing for all construction trades. Exterior site piping work has been mostly completed. The electrical contractor has received the electrical equipment necessary to connect the site to permanent power. The District expects to have the full treatment plant operational by late summer of 2023.

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

Public Notification

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

Analytical Sampling

Sample results for the wells for which deferrals were granted (Wells 9, 14, 20, 21, 22, 25, and 26) taken during the second quarter of 2023 are contained in the below table. Full laboratory reports for each sample are contained in Attachment B.

1,4-Dioxane (parts per billion, ppb)

Well	Date		
	April 2023	**May 2023**	**June 2023**
Well 9 (N-04245)	NS	NS	In Progress
Well 14 (N-06651)	NS	NS	In Progress
Well 20 (N-10149)	NS	1.9	NS
Well 21 (N-12795)	NS	NS	2.3
Well 22 (N-07781)	NS	NS	In Progress
Well 25 (N-08355)	10.0 ; 10.3	NS	NS
Well 26 (N-13119)	1.9	NS	NS

NS – Not Sampled

Conclusion

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

Should you have any questions, please contact Superintendent Peter Logan at 516-921-8280 or visit the website, www.jerichowater.org.

Very truly yours,

Board of Commissioners
Jericho Water District

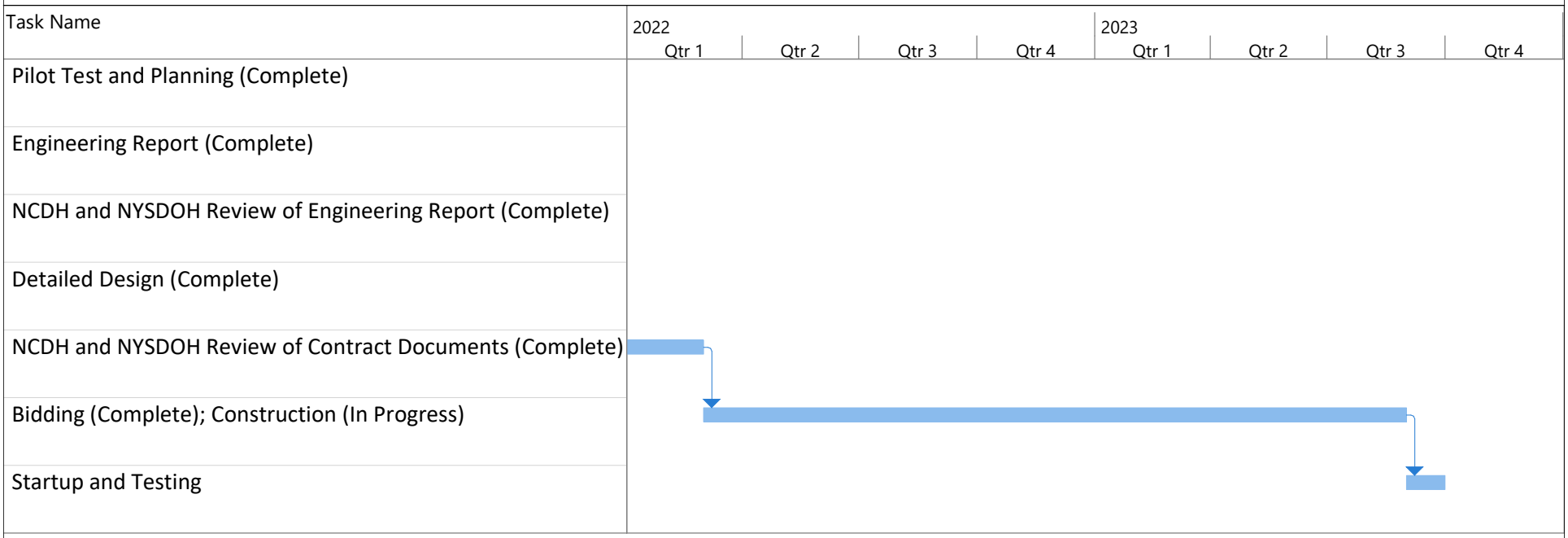
Enclosures
cc: K. Wheeler (NYSDOH)
B. Rogers (NYSDOH)
W. Provoncha (NCDH)
P. Young (NCDH)
R. Putnam (NCDH)
P. Logan (JWD)
W. Merklin (D&B)
M. Savarese (D&B)
L. Ortiz (D&B)
P. Connell (D&B)

ATTACHMENT A

Project Schedules Associated with MCL Deferral

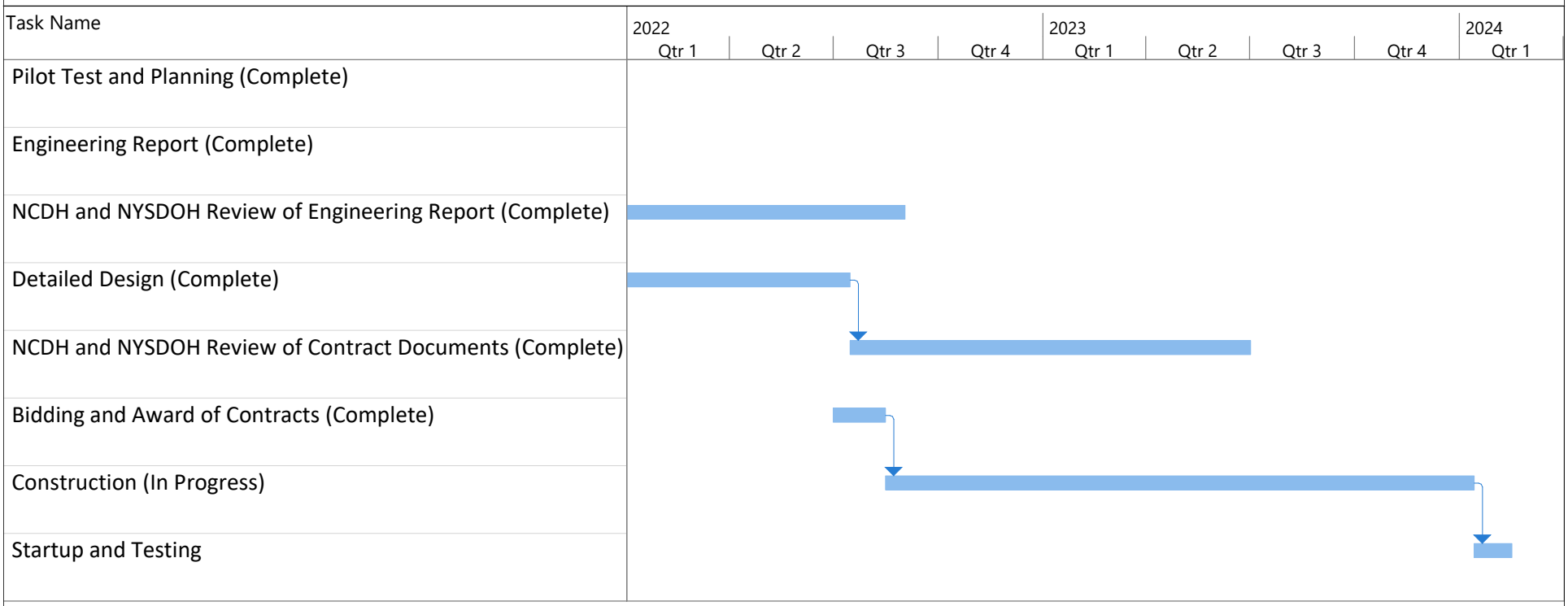
Jericho Water District
MCL Deferral
Quarterly Report - Q2 2023

Wells 9 and 14
AOP Project Schedule



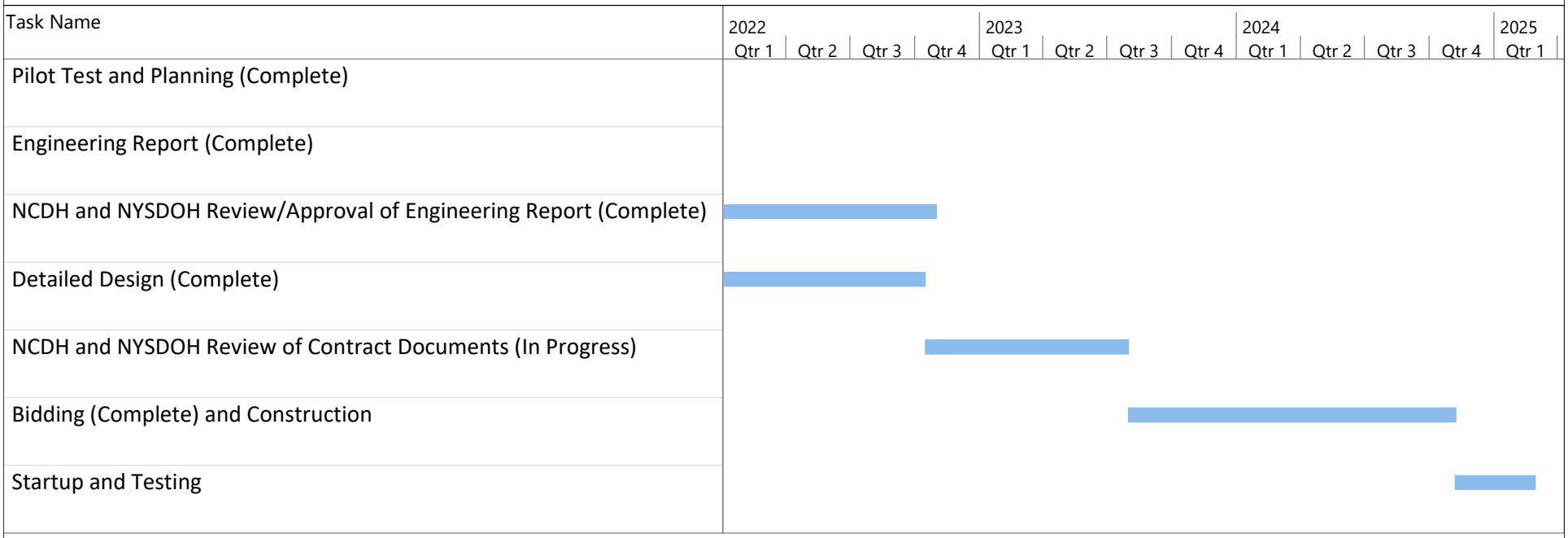
Jericho Water District
MCL Deferral
Quarterly Report - Q2 2023

Wells 20 and 21
AOP Project Schedule



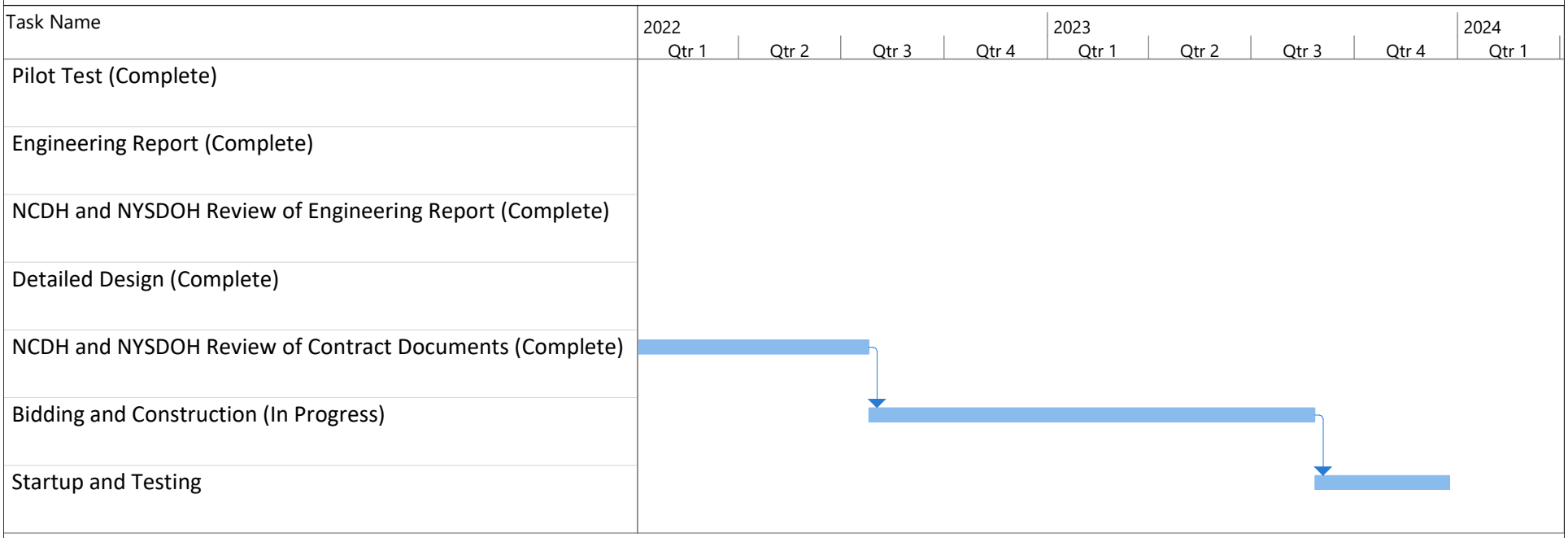
Jericho Water District
MCL Deferral
Quarterly Report - Q2 2023

Well 22
AOP Project Schedule



Jericho Water District
MCL Deferral
Quarterly Report - Q2 2023

Wells 25 and 26
AOP Project Schedule



ATTACHMENT B

Water Quality Data

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Jericho Water District
125 Convent Rd.
Syosset, NY 11791
Attn To : Peter Logan
Federal ID : 2902831
Collected : 04/26/2023 10:32 AM Point N-13119
Received : 04/26/2023 12:38 PM Location Well 26
Collected By CLIENT

Lab No. : 70254255001
Client Sample ID.: N-13119

Sample Comments:
RUN TO WASTE
2 MIN

Analytical Method:ASTM D7237-10

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Cyanide, Free	<10.0		1	ug/L	200	05/01/2023 6:35 PM	001 BP3C1/1

Analytical Method:EPA 180.1

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Turbidity	2.8		1	NTU	5	04/27/2023 11:53	001 BP1U1/1

Analytical Method:EPA 200.7

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Ca Hardness as CaCO3 (SM 2340B	18.2		1	mg/L		04/29/2023 1:49 AM	001 BP4N1/1
Calcium	7.3		1	mg/L		04/29/2023 1:49 AM	001 BP4N1/1
Iron	0.15		1	mg/L	0.3	04/29/2023 1:49 AM	001 BP4N1/1
Magnesium	2.7		1	mg/L		04/29/2023 1:49 AM	001 BP4N1/1
Manganese	<0.010		1	mg/L	0.3	04/29/2023 1:49 AM	001 BP4N1/1
Sodium	16.4		1	mg/L		04/29/2023 1:49 AM	001 BP4N1/1
Tot Hardness asCaCO3 (SM 2340B	29.3	N3	1	mg/L		04/29/2023 1:49 AM	001 BP4N1/1
Zinc	<0.020		1	mg/L	5	04/29/2023 1:49 AM	001 BP4N1/1

Analytical Method:EPA 200.8

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Antimony	<0.40		1	ug/L	6	05/02/2023 4:18 PM	001 BP4N1/1
Arsenic	<1.0		1	ug/L	10	05/02/2023 4:18 PM	001 BP4N1/1
Barium	0.0056		1	mg/L	2	05/02/2023 4:18 PM	001 BP4N1/1
Beryllium	<0.30		1	ug/L	4	05/02/2023 4:18 PM	001 BP4N1/1
Cadmium	<1.0		1	ug/L	5	05/02/2023 4:18 PM	001 BP4N1/1
Chromium	<0.0070		1	mg/L	0.1	05/02/2023 4:18 PM	001 BP4N1/1
Copper	<0.0020		1	mg/L	1.3	05/02/2023 4:18 PM	001 BP4N1/1
Lead	<1.0		1	ug/L	15	05/02/2023 4:18 PM	001 BP4N1/1
Mercury	<0.20		1	ug/L	2	05/02/2023 4:18 PM	001 BP4N1/1
Nickel	<0.00050		1	mg/L		05/02/2023 4:18 PM	001 BP4N1/1
Selenium	<2.0		1	ug/L	50	05/02/2023 4:18 PM	001 BP4N1/1
Silver	<0.0010		1	mg/L	0.1	05/02/2023 4:18 PM	001 BP4N1/1
Thallium	<0.30		1	ug/L	2	05/02/2023 4:18 PM	001 BP4N1/1

Analytical Method:EPA 300.0

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Jericho Water District
125 Convent Rd.
Syosset, NY 11791
Attn To : Peter Logan
Federal ID : 2902831
Collected : 04/26/2023 10:32 AM Point N-13119
Received : 04/26/2023 12:38 PM Location Well 26
Collected By CLIENT

Lab No. : 70254255001
Client Sample ID.: N-13119

Sample Comments:
RUN TO WASTE
2 MIN

Chloride	13.3		1	mg/L	250	05/08/2023 6:26 PM	001 BP1U1/1
Fluoride	<0.10		1	mg/L	2.2	05/08/2023 6:26 PM	001 BP1U1/1
Sulfate	6.5		1	mg/L	250	05/08/2023 6:26 PM	001 BP1U1/1

Analytical Method: EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrate as N	2.5		5	mg/L	10	04/26/2023 11:33	001 BP1U1/1
Nitrate-Nitrite (as N)	2.5		5	mg/L		04/26/2023 11:33	001 BP1U1/1

Analytical Method: EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	04/26/2023 9:45 PM	001 BP1U1/1

Analytical Method: Field Method

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Field Temperature	14.1	N3	1	deg C		04/26/2023 10:32	001 BP3C1/1
Field pH	6.71	N3	1	Std. Units		04/26/2023 10:32	001 BP3C1/1

Analytical Method: SM22 2120B

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Apparent Color	<5.0		1	units		04/27/2023 1:45 PM	001 BP1U1/1
pH	7.2		1	Std. Units		04/27/2023 1:45 PM	001 BP1U1/1

Analytical Method: SM22 2150B

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Odor @ 60 Degrees C	No odor observed		1		3	04/26/2023 6:04 PM	001 AG2U1/1

Analytical Method: SM22 2320B

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Alkalinity, Total as CaCO3	38.2		1	mg/L		05/01/2023 11:37	001 BP1U1/1

Analytical Method: SM22 2330 LSI

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Corrosivity	-2.47		1			05/04/2023 3:16 PM	001 BP1U1/1

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Routine

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Syosset, NY 11791
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Federal ID : 2902831
Collected : 04/26/2023 10:32 AM Point N-13119
Received : 04/26/2023 12:38 PM Location Well 26
Collected By CLIENT

Lab No. : 70254255001
Client Sample ID.: N-13119

Sample Comments:
RUN TO WASTE
2 MIN

Analytical Method: SM22 2540C

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Total Dissolved Solids	94.0	D6	1	mg/L		05/02/2023 7:15 PM	001 BP1U1/1

Analytical Method: SM22 4500 NH3 H

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrogen, Ammonia	<0.10		1	mg/L		05/02/2023 1:01 PM	001 BP1U1/1

Analytical Method: SM22 5540C Prep Method: SM22 5540C Prep Date: 04/27/2023 2:05 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
LAS Molecular Weight, g/mol	320		1			04/27/2023 2:19 PM	001 BP1U1/1
MBAS, Calculated as LAS	<0.080		1	mg/L		04/27/2023 2:19 PM	001 BP1U1/1

Qualifiers:
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Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Jericho Water District
125 Convent Rd.
Syosset, NY 11791
Attn To : Peter Logan
Federal ID : 2902831
Collected : 04/26/2023 11:00 AM Point N-13119
Received : 04/26/2023 12:38 PM Location Well 26
Collected By CLIENT

Lab No. : 70254255002
Client Sample ID.: N-13119

Sample Comments:
RUN TO WASTE
30 MIN

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 04/28/2023 12:50

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**1.9***		1	ug/L	1	04/30/2023 11:24	002 AG2R1/1
Surr: 1,4-Dioxane-d8 (S)	106%		1	%REC		04/30/2023 11:24	002 AG2R1/1

Analytical Method: EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,1,1-Trichloroethane	0.83		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,1,2-Trichloroethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,1-Dichloroethane	2.2		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,1-Dichloroethene	2.0		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,1-Dichloropropene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,2,3-Trichloropropane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,2-Dichlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,2-Dichloroethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,2-Dichloropropane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,3-Dichlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,3-Dichloropropane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
1,4-Dichlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
2,2-Dichloropropane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
2-Chlorotoluene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
4-Chlorotoluene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Benzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Bromobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Bromochloromethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Bromodichloromethane	<0.50		1	ug/L		05/01/2023 4:32 PM	002 VG9C1/1
Bromoform	<0.50		1	ug/L		05/01/2023 4:32 PM	002 VG9C1/1
Bromomethane	<0.50	L1	1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Carbon tetrachloride	0.61		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Chlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Chlorodifluoromethane	1.9	N3	1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1

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Received : 04/26/2023 12:38 PM Location Well 26
Collected By CLIENT

Lab No. : 70254255002
Client Sample ID.: N-13119

Sample Comments:
RUN TO WASTE
30 MIN

Chloroethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Chloroform	0.51		1	ug/L		05/01/2023 4:32 PM	002 VG9C1/1
Chloromethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Dibromochloromethane	<0.50		1	ug/L		05/01/2023 4:32 PM	002 VG9C1/1
Dibromomethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Dichlorodifluoromethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Ethylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Methyl-tert-butyl ether	<0.50	L1	1	ug/L	10	05/01/2023 4:32 PM	002 VG9C1/1
Methylene Chloride	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Styrene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Tetrachloroethene	1.0		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Toluene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Total Trihalomethanes (Calc.)	0.51		1	ug/L	80	05/01/2023 4:32 PM	002 VG9C1/1
Trichloroethene	**6.7***		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Trichlorofluoromethane	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Vinyl chloride	<0.50		1	ug/L	2	05/01/2023 4:32 PM	002 VG9C1/1
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
m&p-Xylene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
n-Butylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
n-Propylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
o-Xylene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
p-Isopropyltoluene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
sec-Butylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
tert-Butylbenzene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	05/01/2023 4:32 PM	002 VG9C1/1
Surr: 1,2-Dichlorobenzene-d4 (S)	79%		1	%REC		05/01/2023 4:32 PM	002 VG9C1/1
Surr: 4-Bromofluorobenzene (S)	94%		1	%REC		05/01/2023 4:32 PM	002 VG9C1/1

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70254255

Laboratory Certifications

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70254255

Additional Qualifiers

D6 - The precision between the sample and sample duplicate exceeded laboratory control limits.
L1 - Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

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May 11, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: IOC/PERC/1,4DIOX/PFAS/POC 4/26
Client Job Number:
Project Number: 70254255
Laboratory Work Order Number: 23E0106

Enclosed are results of analyses for samples as received by the laboratory on April 29, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 5/11/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70254255

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E0106

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: IOC/PERC/1,4DIOX/PFAS/POC 4/26

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-13119	23E0106-01	Drinking Water		EPA 533	
N-13119 FB	23E0106-02	Field Blank		EPA 533	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For PFAS 533: Source sample and field reagent blank appear to switched in the field. All laboratory labels were verified as accurate. Original results reported.

EPA 533

Qualifications:

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

M2-8:2FTS
B338971-BLK1

PF-17B

Extracted internal standard is outside of control limits. Insufficient sample volume for re-extraction.

Analyte & Samples(s) Qualified:

M6PFDA
23E0106-02[N-13119 FB]

M7PFUnA
23E0106-02[N-13119 FB]

M9PFNA
23E0106-02[N-13119 FB]

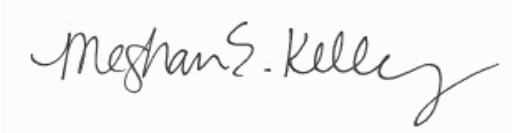
S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-8:2FTS
B338971-BS1, B338971-BSD1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: IOC/PERC/1,4DIOX/PFAS/POC Sample Description: Work Order: 23E0106

Date Received: 4/29/2023

Field Sample #: N-13119 Sampled: 4/26/2023 11:00

Sample ID: 23E0106-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:49	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	140	50-200		5/8/23 21:49
M2-8:2FTS	168	50-200		5/8/23 21:49
MPFBA	94.9	50-200		5/8/23 21:49
M3HFPO-DA	100	50-200		5/8/23 21:49
M6PFDA	77.5	50-200		5/8/23 21:49
M3PFBS	114	50-200		5/8/23 21:49
M7PFUnA	78.5	50-200		5/8/23 21:49
M2-6:2FTS	188	50-200		5/8/23 21:49
M5PFPeA	103	50-200		5/8/23 21:49
M5PFHxA	79.5	50-200		5/8/23 21:49
M3PFHxS	122	50-200		5/8/23 21:49
M4PFHpA	78.8	50-200		5/8/23 21:49
M8PFOA	85.7	50-200		5/8/23 21:49
M8PFOS	101	50-200		5/8/23 21:49
M9PFNA	73.3	50-200		5/8/23 21:49
MPFDoA	76.1	50-200		5/8/23 21:49

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Project Location: IOC/PERC/1,4DIOX/PFAS/POC Sample Description: Work Order: 23E0106

Date Received: 4/29/2023

Field Sample #: N-13119 FB Sampled: 4/26/2023 11:00

Sample ID: 23E0106-02

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	8.8	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoropentanoic acid (PFPeA)	6.6	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorohexanoic acid (PFHxA)	5.0	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluoroheptanoic acid (PFHpA)	3.0	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorooctanoic acid (PFOA)	1.8	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	5/2/23	5/8/23 21:57	JR2

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	59.0		50-200		5/8/23 21:57
M2-8:2FTS	92.3		50-200		5/8/23 21:57
MPFBA	83.5		50-200		5/8/23 21:57
M3HFPO-DA	88.5		50-200		5/8/23 21:57
M6PFDA	**40.4**	*	50-200	PF-17B	5/8/23 21:57
M3PFBS	105		50-200		5/8/23 21:57
M7PFUnA	**45.1**	*	50-200	PF-17B	5/8/23 21:57
M2-6:2FTS	89.2		50-200		5/8/23 21:57
M5PFPeA	86.7		50-200		5/8/23 21:57
M5PFHxA	75.9		50-200		5/8/23 21:57
M3PFHxS	110		50-200		5/8/23 21:57
M4PFHpA	70.9		50-200		5/8/23 21:57
M8PFOA	64.9		50-200		5/8/23 21:57
M8PFOS	103		50-200		5/8/23 21:57
M9PFNA	**47.9**	*	50-200	PF-17B	5/8/23 21:57
MPFDoA	51.1		50-200		5/8/23 21:57

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Sample Extraction Data

Prep Method: EPA 533 **Analytical Method: EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E0106-01 [N-13119]	B338971	272	1.00	05/02/23
23E0106-02 [N-13119 FB]	B338971	277	1.00	05/02/23

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B338971 - EPA 533											
Blank (B338971-BLK1)				Prepared: 05/02/23 Analyzed: 05/08/23							
Perfluorobutanoic acid (PFBA)	ND	1.8	ng/L								
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	ng/L								
Perfluoropentanoic acid (PFPeA)	ND	1.8	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	1.8	ng/L								
11Cl-PF3OUdS (F53B Major)	ND	1.8	ng/L								
9Cl-PF3ONS (F53B Minor)	ND	1.8	ng/L								
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8	ng/L								
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	ng/L								
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	ng/L								
Perfluorodecanoic acid (PFDA)	ND	1.8	ng/L								
Perfluorododecanoic acid (PFDoA)	ND	1.8	ng/L								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L								
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L								
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	ng/L								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	ng/L								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	ng/L								
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8	ng/L								
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8	ng/L								
Perfluoroundecanoic acid (PFUnA)	ND	1.8	ng/L								
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L								
Perfluoroheptanoic acid (PFHpA)	ND	1.8	ng/L								
Perfluorooctanoic acid (PFOA)	ND	1.8	ng/L								
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	ng/L								
Perfluorononanoic acid (PFNA)	ND	1.8	ng/L								
Surrogate: M2-4:2FTS	*25.7*		ng/L	33.7		76.2		50-200			
Surrogate: M2-8:2FTS	*71.0*		ng/L	34.5		**206**	*	50-200			PF-17
Surrogate: MPFBA	*35.4*		ng/L	36.0		98.5		50-200			
Surrogate: M3HFPO-DA	*40.0*		ng/L	36.0		111		50-200			
Surrogate: M6PFDA	*37.7*		ng/L	36.0		105		50-200			
Surrogate: M3PFBS	*29.7*		ng/L	33.5		88.5		50-200			
Surrogate: M7PFUnA	*34.3*		ng/L	36.0		95.3		50-200			
Surrogate: M2-6:2FTS	*30.3*		ng/L	34.2		88.6		50-200			
Surrogate: M5PFPeA	*36.6*		ng/L	36.0		102		50-200			
Surrogate: M5PFHxA	*34.7*		ng/L	36.0		96.3		50-200			
Surrogate: M3PFHxS	*33.2*		ng/L	34.1		97.5		50-200			
Surrogate: M4PFHpA	*35.3*		ng/L	36.0		98.0		50-200			
Surrogate: M8PFOA	*37.8*		ng/L	36.0		105		50-200			
Surrogate: M8PFOS	*28.2*		ng/L	34.5		81.7		50-200			
Surrogate: M9PFNA	*34.8*		ng/L	36.0		96.7		50-200			
Surrogate: MPFDoA	*34.4*		ng/L	36.0		95.7		50-200			
LCS (B338971-BS1)				Prepared: 05/02/23 Analyzed: 05/08/23							
Perfluorobutanoic acid (PFBA)	1.82	1.8	ng/L	1.85		98.6		50-150			
Perfluorobutanesulfonic acid (PFBS)	1.48	1.8	ng/L	1.64		90.5		50-150			
Perfluoropentanoic acid (PFPeA)	1.51	1.8	ng/L	1.85		81.7		50-150			
Perfluorohexanoic acid (PFHxA)	1.56	1.8	ng/L	1.85		84.4		50-150			
11Cl-PF3OUdS (F53B Major)	1.46	1.8	ng/L	1.74		83.8		50-150			
9Cl-PF3ONS (F53B Minor)	1.47	1.8	ng/L	1.72		85.2		50-150			

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B338971 - EPA 533											
LCS (B338971-BS1)				Prepared: 05/02/23 Analyzed: 05/08/23							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.54	1.8	ng/L	1.74		88.4		50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.55	1.8	ng/L	1.85		83.7		50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.50	1.8	ng/L	1.78		84.5		50-150			
Perfluorodecanoic acid (PFDA)	1.42	1.8	ng/L	1.85		76.7		50-150			
Perfluorododecanoic acid (PFDoA)	1.38	1.8	ng/L	1.85		74.6		50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.33	1.8	ng/L	1.65		81.0		50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.70	1.8	ng/L	1.77		96.5		50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.48	1.8	ng/L	1.73		85.6		50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.44	1.8	ng/L	1.69		84.9		50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.45	1.8	ng/L	1.85		78.4		50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.41	1.8	ng/L	1.85		76.3		50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.29	1.8	ng/L	1.76		73.4		50-150			
Perfluoropetanesulfonic acid (PFPeS)	1.37	1.8	ng/L	1.74		78.8		50-150			
Perfluoroundecanoic acid (PFUnA)	1.58	1.8	ng/L	1.85		85.3		50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.47	1.8	ng/L	1.85		79.7		50-150			
Perfluoroheptanoic acid (PFHpA)	1.66	1.8	ng/L	1.85		89.7		50-150			
Perfluorooctanoic acid (PFOA)	1.35	1.8	ng/L	1.85		72.9		50-150			
Perfluorooctanesulfonic acid (PFOS)	1.74	1.8	ng/L	1.71		102		50-150			
Perfluorononanoic acid (PFNA)	1.51	1.8	ng/L	1.85		81.9		50-150			
Surrogate: M2-4:2FTS	*27.0*		ng/L	34.7		77.9		50-200			
Surrogate: M2-8:2FTS	*87.3*		ng/L	35.5		**246**	*	50-200			S-29
Surrogate: MPFBA	*33.5*		ng/L	37.0		90.5		50-200			
Surrogate: M3HFPO-DA	*32.2*		ng/L	37.0		86.9		50-200			
Surrogate: M6PFDA	*28.5*		ng/L	37.0		77.1		50-200			
Surrogate: M3PFBS	*32.0*		ng/L	34.5		92.7		50-200			
Surrogate: M7PFUnA	*28.1*		ng/L	37.0		76.1		50-200			
Surrogate: M2-6:2FTS	*36.0*		ng/L	35.2		102		50-200			
Surrogate: M5PFPeA	*34.3*		ng/L	37.0		92.7		50-200			
Surrogate: M5PFHxA	*29.4*		ng/L	37.0		79.5		50-200			
Surrogate: M3PFHxS	*35.5*		ng/L	35.1		101		50-200			
Surrogate: M4PFHpA	*29.3*		ng/L	37.0		79.2		50-200			
Surrogate: M8PFOA	*32.2*		ng/L	37.0		87.1		50-200			
Surrogate: M8PFOS	*29.8*		ng/L	35.5		84.0		50-200			
Surrogate: M9PFNA	*28.0*		ng/L	37.0		75.6		50-200			
Surrogate: MPFDoA	*29.2*		ng/L	37.0		78.9		50-200			
LCS Dup (B338971-BSD1)				Prepared: 05/02/23 Analyzed: 05/08/23							
Perfluorobutanoic acid (PFBA)	2.04	1.8	ng/L	1.82		112		50-150	11.0	50	
Perfluorobutanesulfonic acid (PFBS)	1.58	1.8	ng/L	1.61		98.6		50-150	6.77	50	
Perfluoropentanoic acid (PFPeA)	1.76	1.8	ng/L	1.82		96.7		50-150	14.9	50	
Perfluorohexanoic acid (PFHxA)	1.82	1.8	ng/L	1.82		100		50-150	15.1	50	
11Cl-PF3OUdS (F53B Major)	1.27	1.8	ng/L	1.71		74.3		50-150	13.9	50	
9Cl-PF3ONS (F53B Minor)	1.62	1.8	ng/L	1.69		95.5		50-150	9.57	50	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.80	1.8	ng/L	1.71		105		50-150	15.6	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.72	1.8	ng/L	1.82		94.9		50-150	10.7	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.64	1.8	ng/L	1.74		93.8		50-150	8.65	50	
Perfluorodecanoic acid (PFDA)	1.84	1.8	ng/L	1.82		102		50-150	26.1	50	
Perfluorododecanoic acid (PFDoA)	1.58	1.8	ng/L	1.82		86.8		50-150	13.2	50	

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B338971 - EPA 533											
LCS Dup (B338971-BSD1)				Prepared: 05/02/23 Analyzed: 05/08/23							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.42	1.8	ng/L	1.62		87.9		50-150	6.27	50	
Perfluoroheptanesulfonic acid (PFHpS)	1.49	1.8	ng/L	1.73		86.0		50-150	13.3	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.59	1.8	ng/L	1.70		93.8		50-150	7.25	50	
Perfluorohexanesulfonic acid (PFHxS)	1.31	1.8	ng/L	1.66		78.8		50-150	9.39	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.58	1.8	ng/L	1.82		87.0		50-150	8.53	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.50	1.8	ng/L	1.82		82.7		50-150	6.18	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.55	1.8	ng/L	1.72		89.9		50-150	18.3	50	
Perfluoropetanesulfonic acid (PFPeS)	1.43	1.8	ng/L	1.71		84.0		50-150	4.50	50	
Perfluoroundecanoic acid (PFUnA)	1.89	1.8	ng/L	1.82		104		50-150	18.1	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.67	1.8	ng/L	1.82		91.9		50-150	12.4	50	
Perfluoroheptanoic acid (PFHpA)	1.96	1.8	ng/L	1.82		108		50-150	16.4	50	
Perfluorooctanoic acid (PFOA)	1.86	1.8	ng/L	1.82		102		50-150	31.8	50	
Perfluorooctanesulfonic acid (PFOS)	1.69	1.8	ng/L	1.68		101		50-150	2.88	50	
Perfluorononanoic acid (PFNA)	1.92	1.8	ng/L	1.82		106		50-150	23.5	50	
Surrogate: M2-4:2FTS	*35.4*		ng/L	34.1		104		50-200			
Surrogate: M2-8:2FTS	*131*		ng/L	34.9		**375**	*	50-200			S-29
Surrogate: MPFBA	*36.4*		ng/L	36.3		100		50-200			
Surrogate: M3HFPO-DA	*38.3*		ng/L	36.3		106		50-200			
Surrogate: M6PFDA	*39.6*		ng/L	36.3		109		50-200			
Surrogate: M3PFBS	*40.1*		ng/L	33.8		118		50-200			
Surrogate: M7PFUnA	*35.3*		ng/L	36.3		97.1		50-200			
Surrogate: M2-6:2FTS	*42.7*		ng/L	34.5		124		50-200			
Surrogate: M5PFPeA	*37.6*		ng/L	36.3		103		50-200			
Surrogate: M5PFHxA	*35.2*		ng/L	36.3		96.9		50-200			
Surrogate: M3PFHxS	*44.1*		ng/L	34.4		128		50-200			
Surrogate: M4PFHpA	*35.0*		ng/L	36.3		96.4		50-200			
Surrogate: M8PFOA	*36.1*		ng/L	36.3		99.4		50-200			
Surrogate: M8PFOS	*42.1*		ng/L	34.8		121		50-200			
Surrogate: M9PFNA	*34.7*		ng/L	36.3		95.6		50-200			
Surrogate: MPFDoA	*35.9*		ng/L	36.3		98.8		50-200			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-17B	Extracted internal standard is outside of control limits. Insufficient sample volume for re-extraction.
S-29	Extracted Internal Standard is outside of control limits.

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A Pace Analytical® Laboratory

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA
Perfluoropetanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023

235106

KF

Internal Transfer Chain of Custody

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY

Cert. Needed: [X] Yes ☐ No

Pace Analytical®
www.pacelabs.com

Workorder: 70254255 **Workorder Name:** IOC/PERC/1,4DIOX/PFAS/POC 4/26 **Owner Received Date:** 4/26/2023 **Results Requested By:** 5/10/2023

Report To	Subcontract To
Jennifer Aracri Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040	Pace New England 39 Spruce St. East Longmeadow, MA 01028 Phone (413)525-2332

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other	PFAS by 533	LAB USE ONLY
1	N-13119	PS	4/26/2023 11:00	70254255002	Drinking	1	X	
2	N-13119 FB	PS	4/26/2023 11:00	70254255003	Drinking	1	X	
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	Pace LT	4/26/23 15:15		4/27/23
2				
3				

Comments: 25 Compound List

Cooler Temperature on Receipt 2.0 °C **Custody Seal** Y or (N) **Received on Ice** (Y) or N **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

MC

FedEx® Tracking

DELIVERED

Saturday

4/29/2023 at 9:34 am

Signed for by: L.AROLA

Obtain Proof of delivery

DELIVERY STATUS

Delivered

TRACKING ID

647678494058

FROM
MELVILLE, NY US

Label Created
4/28/2023 2:56 PM

PACKAGE RECEIVED BY FEDEX
MELVILLE, NY
4/28/2023 5:33 PM

IN TRANSIT
WINDSOR LOCKS, CT
4/29/2023 8:27 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
4/29/2023 8:38 AM

DELIVERED
EAST LONGMEADOW, MA US

Delivered
4/29/2023 at 9:34 AM

View travel history

Want updates on this shipment? Enter your email and we will do the rest!

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MORE OPTIONS

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Shipment facts

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
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Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Pace® PEOPLE ADVANCING SCIENC

Client PACE

Project 10CIPERCLL, 4DIOX/PFAS/POC 4/26

MCP/RCP Required N/A

Deliverable Package Req. N/A

Location 10CIPERCLL, 4DIOX/PFAS/POC

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☐ Fed Ex ☑ Walk In ☐ Other ☐ _____

Received By / Date / Time LA 4/29/23 934

Back-Sheet By / Date / Time LA 5/1/23 934

Temperature Method Gun # 5

Temp ☑ < 6° C Actual Temperature 2.0

Rush Samples: Yes / (No) Notify _____

Short Hold: Yes / (No) Notify _____

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☐

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: (N/A) ☐ ☐

Notes regarding Samples/COC outside of SOP:

Container (Circle when applicable)	UnP	HCl	HNO3	H2SO4	NaOH	Trizma	NaS2O3	Other Preservative
1L Amber Plastic								
500 mL Amber Plastic								
250 mL Amber (Plastic)	3 (LA)							3 Ammonium Acetate
Other Amber Clear Plastic								
16oz Amber Clear								
8oz Amber Clear								
4oz Amber Clear								
2oz Amber Clear								
Col/Bacteria								
Flashpoint								
Plastic Bag								
SOC Kit								
Perchlorate								
Encore								
Frozen								

	Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials									

301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

Analytical Results Report For **Pace Analytical Services, Inc.-NY**

Project 70254255
Workorder 3300553
Report ID 242738 on 5/9/2023

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Apr 29, 2023.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Tara Bernier - Pace Analytical Services, Inc.-NY
Reporting - Pace Analytical Services, Inc.-NY

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3300553001	N-13119	NY Potable Water	04/26/2023 10:32	04/29/2023 08:46	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.

Detected Results Summary

Not applicable for this WO.

Results

Client Sample ID	N-13119	Collected	04/26/2023 10:32
Lab Sample ID	3300553001	Lab Receipt	04/29/2023 08:46

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Perchlorate	ND	ND	ug/L	4.0		EPA 314.0	1	05/05/2023 18:21	DMG	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3300553001	N-13119	EPA 314.0	N/A	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	987266	Prep Method	N/A
Date	N/A	Analysis Method	EPA 314.0
Tech.			

Associated Samples

3300553001

Matrix Spike 3664396 (MS) 3300552001 (non-Project Sample) For QC Batch 987266

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3664397 (MSD) 3300552001 (non-Project Sample) For QC Batch 987266

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Perchlorate	14797-73-0	MS	30.30	3.50	25	107	80 - 120		
Perchlorate	14797-73-0	MSD	30.40	3.50	25	107	80 - 120	RPD 0.03 (Max-15)	

Matrix Spike 3664399 (MS) 3301069003 (non-Project Sample) For QC Batch 987266

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3664400 (MSD) 3301069003 (non-Project Sample) For QC Batch 987266

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Perchlorate	14797-73-0	MS	26.70	0	25	107	80 - 120		
Perchlorate	14797-73-0	MSD	26.70	0	25	107	80 - 120	RPD 0.06 (Max-15)	

Method Blank 3664393 (MB) Created on 05/04/2023 11:17 For QC Batch 987266

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Perchlorate	14797-73-0	BLK	ND	ug/L	4.0	ND

Lab Control Standard 3664395 (LCS) Created on 05/04/2023 11:24 For QC Batch 987266

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Perchlorate	14797-73-0	LCS	27		25	108	85 - 115		

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Method Blank 3664398 (MB) Created on 05/04/2023 11:24 For QC Batch 987266

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Perchlorate	14797-73-0	BLK	ND	ug/L	4.0	ND

Lab Control Standard 3665096 (LCS) Created on 05/05/2023 11:59 For QC Batch 987266

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Perchlorate	14797-73-0	LCS	26.60		25	106	85 - 115		

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3300553001	N-13119	N/A	N/A	N/A		EPA 314.0	987266

Chain of Custody

PASI New York Laboratory

3300553
Logged By: KSB
PM: SSL

Pace Analytical®
www.pacelabs.com

Workorder: 70254255 **Workorder Name:** IOC/PERC/1,4DIOX/PFAS/POC 4/26 **Results Requested By:** 5/10/2023

Report / Invoice To	Subcontract To
Jennifer Aracri Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040 Email: jennifer.aracri@pacelabs.com	**ALS -Middletown** 301 Fulling Mill Road Middletown, PA 17057 P.O. 70254255 JSA

State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: 3140 Perchlorate by IC	
1	N-13119	4/26/2023 10:32	70254255001	Drinking	✓						X	
2												
3												
4												
5												

Temp By: KSB | WO Temp (°C): 0 | Therm ID: 570

Receipt Info Completed By: KSB

Cooler Custody Seal Intact	Y N	NA
Sample Custody Seal Intact	Y N	NA
Received on Ice	Y N	NA
Cooler & Samples Intact	Y N	
Correct Containers Provided	Y N	
Sample Label/COC Agree	Y N	
Adequate Sample Volumes	Y N	
CR6 Samples Filtered	Y N	NA
OP Samples Filtered	Y N	NA
VOA Headspace Present	Y N	NA
Voa Trip Blank	Y N	NA
NJ≤ 4 Days?	Y N	
Rad Screen (uCi)		
Courier/Tracking #	6476 7849 4091	
SDWA Compliance	Y	0
PWSID		
WV Containers 0-6°C	Y N	NA

Transfers	Released By	Date/Time	Received By	Date/Time
1	Pace LT Feder	4/28/23 1820	Fedex	
2				4.29.23 8:46
3				

Please report in ug/L.
no gr Client collector

Cooler Temperature on Receipt ____ °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

mc

WO# : 70254255

70254255

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 4/26/23

Collected By: AL

Accepted By: Michelle Conklin Face ID

Cooler Temp: 3.4 °C 4/26/23 12:38 B

☑ WELL OFF LINE 26

☐ WELL RUN TO SYSTEM

☑ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water

Address: 125 Convent Rd, Syosset

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.
4/26/23 10:30	PW	well 26 N-13119	RW		RO			Bac series 0 min	
4/26/23 10:32	↓	↓	↓		↓			Bac series 2 min	
4/26/23 10:35								Bac series 5 min	
4/26/23 10:40								Bac series 10 min	
4/26/23 11:00								Bac series 30 min	
4/26/23 10:32							6.71/14.1°C	IOC w/ Perchlorate	001
4/26/23 11:00								1,4 Dioxane	
4/26/23 11:00								pfoa/pfos 533 w/ Field Blank	002
4/26/23 11:00	↓	↓	↓		↓			POC	

Remarks:

WO# : 70254255

PM: JSA **Due Date: 05/08/23**

CLIENT: JWD

Client: JWD Profile #: 5152

☐ Use Point Number

Work ID: _____ COC Page _____ of _____

☐ Add SCLOGFD to first sample for field charge

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP35	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1			2											1						2					1			1			1			1		2																
2																																				1																
3																																																					
4																																																					
5																																																					
6																																																					
7																																																					
8																																																					
9																																																					
10																																																					
11																																																					

Container Codes

Glass				Plastic		Misc.	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic	SP5T	120mL Coliform Na Thio
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	R	Terracore Kit
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfile 500mL (blue Cap)	BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma	WP	Wipe
		AG1A	(NH4Cl)	BP35	250mL Ammonium Acetate		
WG9O	8oz clear soil jar			BP3R	250mL NH4SO4-NH4OH		
WG4O	4oz clear soil jar			BP1Z	1L NaOH, Zn Acetate		
				BP1N	1L HNO3 plastic		
				BP1B	Na Thiosulfate Amber Bottle		

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosultate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials _____

Additional Comments

→ Please log-in the 2nd sample "_ _ _ FB"

Pace Analytical®

Sample Condition Upo

WO#: 70254255
PM: JSA Due Date: 05/08/23
CLIENT: JWD

Client Name: JWD

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☑ No

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

Type of Ice: Wet (Blue) None

Thermometer Used: THO TH148 Correction Factor: -0.3

☑ Samples on ice, cooling process has begun

Cooler Temperature(°C): 3.4 Cooler Temperature Corrected(°C): 3.1

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: SH 4/26/23

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

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

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

				COMMENTS:
Chain of Custody Present:	☑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 I	☑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: SC 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 # HC293085				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☑N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #. 14-860.				
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 # 14-862				Positive for Sulfide? Y N
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-0024-01

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Jericho Water District
125 Convent Rd.
Syosset, NY 11791
Attn To : Peter Logan
Federal ID : 2902831
Collected : 04/27/2023 10:20 AM Point N-08355
Received : 04/27/2023 02:58 PM Location Well 25
Collected By CLIENT
Sample Comments:
RUN TO WASTE

Lab No. : 70254407001
Client Sample ID.: N-08355

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 04/28/2023 12:50

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**10***		5	ug/L	1	05/01/2023 1:38 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	102%		5	%REC		05/01/2023 1:38 PM	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 05/22/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70254407

Laboratory Certifications

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

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

May 22, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: 1,4DIOXANE/PFAS 4/27
Client Job Number:
Project Number: 70254407
Laboratory Work Order Number: 23E0265

Enclosed are results of analyses for samples as received by the laboratory on May 2, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 5/22/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70254407

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E0265

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1,4DIOXANE/PFAS 4/27

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-08355	23E0265-01	Drinking Water		EPA 533	
N-08355 FB	23E0265-02	Field Blank		EPA 533	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 533

Qualifications:

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

M2-6:2FTS
23E0265-02[N-08355 FB]

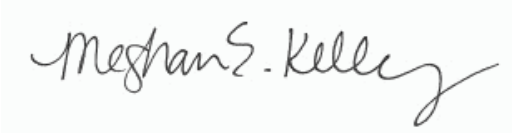
S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-4:2FTS
23E0265-02[N-08355 FB], S087798-CCV2

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4DIOXANE/PFAS 4/27 Sample Description: Work Order: 23E0265

Date Received: 5/2/2023

Field Sample #: N-08355 Sampled: 4/27/2023 10:20

Sample ID: 23E0265-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	15	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoropentanoic acid (PFPeA)	11	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorohexanoic acid (PFHxA)	11	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoropetanesulfonic acid (PFPeS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluoroheptanoic acid (PFHpA)	7.0	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorooctanoic acid (PFOA)	4.0	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:45	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	53.1	50-200		5/17/23 20:45
M2-8:2FTS	113	50-200		5/17/23 20:45
MPFBA	87.0	50-200		5/17/23 20:45
M3HFPO-DA	54.4	50-200		5/17/23 20:45
M6PFDA	81.2	50-200		5/17/23 20:45
M3PFBS	101	50-200		5/17/23 20:45
M7PFUnA	84.4	50-200		5/17/23 20:45
M2-6:2FTS	80.7	50-200		5/17/23 20:45
M5PFPeA	82.2	50-200		5/17/23 20:45
M5PFHxA	74.7	50-200		5/17/23 20:45
M3PFHxS	106	50-200		5/17/23 20:45
M4PFHpA	74.4	50-200		5/17/23 20:45
M8PFOA	75.2	50-200		5/17/23 20:45
M8PFOS	107	50-200		5/17/23 20:45
M9PFNA	75.4	50-200		5/17/23 20:45
MPFDoA	82.1	50-200		5/17/23 20:45

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Project Location: 1,4DIOXANE/PFAS 4/27 Sample Description: Work Order: 23E0265

Date Received: 5/2/2023

Field Sample #: N-08355 FB Sampled: 4/27/2023 10:20

Sample ID: 23E0265-02

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoropetanesulfonic acid (PFPeS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:53	QNW

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	**38.8**	*	50-200	S-29	5/17/23 20:53
M2-8:2FTS	96.1		50-200		5/17/23 20:53
MPFBA	98.1		50-200		5/17/23 20:53
M3HFPO-DA	70.2		50-200		5/17/23 20:53
M6PFDA	77.3		50-200		5/17/23 20:53
M3PFBS	104		50-200		5/17/23 20:53
M7PFUnA	74.7		50-200		5/17/23 20:53
M2-6:2FTS	**265**	*	50-200	PF-17	5/17/23 20:53
M5PFPeA	95.2		50-200		5/17/23 20:53
M5PFHxA	80.4		50-200		5/17/23 20:53
M3PFHxS	110		50-200		5/17/23 20:53
M4PFHpA	88.1		50-200		5/17/23 20:53
M8PFOA	96.8		50-200		5/17/23 20:53
M8PFOS	98.9		50-200		5/17/23 20:53
M9PFNA	84.0		50-200		5/17/23 20:53
MPFDoA	77.3		50-200		5/17/23 20:53

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Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E0265-01 [N-08355]	B339147	250	1.00	05/03/23
23E0265-02 [N-08355 FB]	B339147	250	1.00	05/03/23

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B339147 - EPA 533										
Blank (B339147-BLK1)				Prepared: 05/03/23 Analyzed: 05/17/23						
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L							
Perfluoropetanesulfonic acid (PFPeS)	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Surrogate: M2-4:2FTS	*49.6*		ng/L	37.5		132	50-200			
Surrogate: M2-8:2FTS	*62.9*		ng/L	38.4		164	50-200			
Surrogate: MPFBA	*53.8*		ng/L	40.0		134	50-200			
Surrogate: M3HFPO-DA	*42.9*		ng/L	40.0		107	50-200			
Surrogate: M6PFDA	*58.6*		ng/L	40.0		147	50-200			
Surrogate: M3PFBS	*59.3*		ng/L	37.3		159	50-200			
Surrogate: M7PFUnA	*51.7*		ng/L	40.0		129	50-200			
Surrogate: M2-6:2FTS	*51.4*		ng/L	38.0		135	50-200			
Surrogate: M5PFPeA	*52.6*		ng/L	40.0		131	50-200			
Surrogate: M5PFHxA	*52.4*		ng/L	40.0		131	50-200			
Surrogate: M3PFHxS	*62.6*		ng/L	37.9		165	50-200			
Surrogate: M4PFHpA	*54.9*		ng/L	40.0		137	50-200			
Surrogate: M8PFOA	*57.0*		ng/L	40.0		142	50-200			
Surrogate: M8PFOS	*56.9*		ng/L	38.4		148	50-200			
Surrogate: M9PFNA	*52.9*		ng/L	40.0		132	50-200			
Surrogate: MPFDoA	*51.6*		ng/L	40.0		129	50-200			
LCS (B339147-BS1)				Prepared: 05/03/23 Analyzed: 05/17/23						
Perfluorobutanoic acid (PFBA)	2.32	2.0	ng/L	2.00		116	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.94	2.0	ng/L	1.77		110	50-150			
Perfluoropentanoic acid (PFPeA)	2.19	2.0	ng/L	2.00		109	50-150			
Perfluorohexanoic acid (PFHxA)	2.07	2.0	ng/L	2.00		103	50-150			
11Cl-PF3OUdS (F53B Major)	1.66	2.0	ng/L	1.88		87.9	50-150			
9Cl-PF3ONS (F53B Minor)	1.96	2.0	ng/L	1.86		105	50-150			

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B339147 - EPA 533										
LCS (B339147-BS1)				Prepared: 05/03/23 Analyzed: 05/17/23						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.02	2.0	ng/L	1.88		107	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.16	2.0	ng/L	2.00		108	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.18	2.0	ng/L	1.92		113	50-150			
Perfluorodecanoic acid (PFDA)	2.44	2.0	ng/L	2.00		122	50-150			
Perfluorododecanoic acid (PFDoA)	1.90	2.0	ng/L	2.00		94.9	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.82	2.0	ng/L	1.78		102	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.98	2.0	ng/L	1.91		104	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.01	2.0	ng/L	1.87		107	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.96	2.0	ng/L	1.83		107	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	2.14	2.0	ng/L	2.00		107	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	2.21	2.0	ng/L	2.00		110	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.91	2.0	ng/L	1.90		100	50-150			
Perfluoropetanesulfonic acid (PFPeS)	1.84	2.0	ng/L	1.88		97.8	50-150			
Perfluoroundecanoic acid (PFUnA)	2.47	2.0	ng/L	2.00		124	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.04	2.0	ng/L	2.00		102	50-150			
Perfluoroheptanoic acid (PFHpA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorooctanoic acid (PFOA)	2.24	2.0	ng/L	2.00		112	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.17	2.0	ng/L	1.85		118	50-150			
Perfluorononanoic acid (PFNA)	1.72	2.0	ng/L	2.00		86.2	50-150			
Surrogate: M2-4:2FTS	*33.6*		ng/L	37.5		89.5	50-200			
Surrogate: M2-8:2FTS	*40.9*		ng/L	38.4		107	50-200			
Surrogate: MPFBA	*41.8*		ng/L	40.0		105	50-200			
Surrogate: M3HFPO-DA	*33.6*		ng/L	40.0		84.0	50-200			
Surrogate: M6PFDA	*44.0*		ng/L	40.0		110	50-200			
Surrogate: M3PFBS	*41.7*		ng/L	37.3		112	50-200			
Surrogate: M7PFUnA	*38.9*		ng/L	40.0		97.3	50-200			
Surrogate: M2-6:2FTS	*38.4*		ng/L	38.0		101	50-200			
Surrogate: M5PFPeA	*41.8*		ng/L	40.0		105	50-200			
Surrogate: M5PFHxA	*41.5*		ng/L	40.0		104	50-200			
Surrogate: M3PFHxS	*43.6*		ng/L	37.9		115	50-200			
Surrogate: M4PFHpA	*40.9*		ng/L	40.0		102	50-200			
Surrogate: M8PFOA	*44.0*		ng/L	40.0		110	50-200			
Surrogate: M8PFOS	*41.5*		ng/L	38.4		108	50-200			
Surrogate: M9PFNA	*40.8*		ng/L	40.0		102	50-200			
Surrogate: MPFDoA	*41.6*		ng/L	40.0		104	50-200			
LCS Dup (B339147-BSD1)				Prepared: 05/03/23 Analyzed: 05/17/23						
Perfluorobutanoic acid (PFBA)	2.30	2.0	ng/L	2.00		115	50-150	0.805	30	
Perfluorobutanesulfonic acid (PFBS)	1.80	2.0	ng/L	1.77		102	50-150	7.65	30	
Perfluoropentanoic acid (PFPeA)	2.00	2.0	ng/L	2.00		100	50-150	8.65	30	
Perfluorohexanoic acid (PFHxA)	1.91	2.0	ng/L	2.00		95.4	50-150	8.15	30	
11Cl-PF3OUdS (F53B Major)	1.70	2.0	ng/L	1.88		90.3	50-150	2.66	30	
9Cl-PF3ONS (F53B Minor)	2.04	2.0	ng/L	1.86		110	50-150	3.93	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.78	2.0	ng/L	1.88		94.7	50-150	12.6	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.95	2.0	ng/L	2.00		97.6	50-150	10.1	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.77	2.0	ng/L	1.92		92.3	50-150	20.6	30	
Perfluorodecanoic acid (PFDA)	2.78	2.0	ng/L	2.00		139	50-150	12.8	30	
Perfluorododecanoic acid (PFDoA)	1.95	2.0	ng/L	2.00		97.7	50-150	2.90	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B339147 - EPA 533										
LCS Dup (B339147-BSD1)				Prepared: 05/03/23 Analyzed: 05/17/23						
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.71	2.0	ng/L	1.78		96.1	50-150	6.08	30	
Perfluoroheptanesulfonic acid (PFHpS)	2.11	2.0	ng/L	1.91		110	50-150	6.17	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.84	2.0	ng/L	1.87		98.3	50-150	8.65	30	
Perfluorohexanesulfonic acid (PFHxS)	1.93	2.0	ng/L	1.83		106	50-150	1.42	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	2.03	2.0	ng/L	2.00		101	50-150	5.11	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	2.14	2.0	ng/L	2.00		107	50-150	3.09	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.33	2.0	ng/L	1.90		122	50-150	19.8	30	
Perfluoropetanesulfonic acid (PFPeS)	1.72	2.0	ng/L	1.88		91.7	50-150	6.48	30	
Perfluoroundecanoic acid (PFUnA)	2.33	2.0	ng/L	2.00		116	50-150	6.02	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.97	2.0	ng/L	2.00		98.7	50-150	3.15	30	
Perfluoroheptanoic acid (PFHpA)	2.14	2.0	ng/L	2.00		107	50-150	6.43	30	
Perfluorooctanoic acid (PFOA)	1.92	2.0	ng/L	2.00		95.8	50-150	15.7	30	
Perfluorooctanesulfonic acid (PFOS)	2.00	2.0	ng/L	1.85		108	50-150	8.46	30	
Perfluorononanoic acid (PFNA)	1.55	2.0	ng/L	2.00		77.3	50-150	10.9	30	
Surrogate: M2-4:2FTS	*35.0*		ng/L	37.5		93.3	50-200			
Surrogate: M2-8:2FTS	*46.0*		ng/L	38.4		120	50-200			
Surrogate: MPFBA	*39.8*		ng/L	40.0		99.5	50-200			
Surrogate: M3HFPO-DA	*30.8*		ng/L	40.0		77.1	50-200			
Surrogate: M6PFDA	*39.4*		ng/L	40.0		98.5	50-200			
Surrogate: M3PFBS	*42.8*		ng/L	37.3		115	50-200			
Surrogate: M7PFUnA	*38.4*		ng/L	40.0		96.0	50-200			
Surrogate: M2-6:2FTS	*36.5*		ng/L	38.0		95.8	50-200			
Surrogate: M5PFPeA	*39.7*		ng/L	40.0		99.3	50-200			
Surrogate: M5PFHxA	*39.1*		ng/L	40.0		97.7	50-200			
Surrogate: M3PFHxS	*45.3*		ng/L	37.9		119	50-200			
Surrogate: M4PFHpA	*41.4*		ng/L	40.0		103	50-200			
Surrogate: M8PFOA	*40.8*		ng/L	40.0		102	50-200			
Surrogate: M8PFOS	*40.0*		ng/L	38.4		104	50-200			
Surrogate: M9PFNA	*38.5*		ng/L	40.0		96.2	50-200			
Surrogate: MPFDoA	*39.8*		ng/L	40.0		99.5	50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
S-29	Extracted Internal Standard is outside of control limits.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA
Perfluoropetanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023

23E0268
HC

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: ☒ Yes ☐ No

Workorder: 70254407 **Workorder Name:** 1,4DIOXANE/PFAS 4/27

Owner Received Date: 4/27/2023 **Results Requested By:** 5/12/2023

Report To	Subcontract To
Jennifer Aracri Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040	Pace New England 39 Spruce St. East Longmeadow, MA 01028 Phone (413)525-2332

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other	PFAS by 533	LAB USE ONLY
1	N-08355	PS	4/27/2023 10:20	70254407001	Drinking	1	X	
2	N-08355 FB	PS	4/27/2023 10:20	70254407002	Drinking	1	X	
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature] PACE	5/1/23 1800	[signature]	0930 5-2-23
2				
3				

Comments: 25 Compound List

Cooler Temperature on Receipt 4.8 °C | **Custody Seal** Y or (N) | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

M.C.

FedEx® Tracking

DELIVERED

Tuesday

5/2/2023 at 9:30 am

Signed for by: A.MULLIER

Obtain Proof of delivery

DELIVERY STATUS

Delivered

Shipment is 1 of 2 pieces

TRACKING ID

647678494687

FROM
MELVILLE, NY US

Label Created
5/1/2023 5:12 PM

PACKAGE RECEIVED BY FEDEX
MELVILLE, NY
5/1/2023 6:07 PM

IN TRANSIT
WINDSOR LOCKS, CT
5/2/2023 7:52 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
5/2/2023 8:04 AM

DELIVERED
EAST LONGMEADOW, MA US

Delivered
5/2/2023 at 9:30 AM

View travel history

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

SUBMIT

MORE OPTIONS

Manage Delivery

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F:413-525-6405
www.pacelabs.com

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Pace PEOPLE ADVANCING SCIENC

Client Pace

Project 1,4 Dioxane/PFA 4/27

MCP/RCP Required N/A

Deliverable Package Req. N/A

Location 1,4 Dioxane/PFAs 4/27

PWSID# (When Applicable) MA

Arrival Method:

Courier ☐ Fed Ex ☑ Walk In ☐ Other ☐

Received By / Date / Time AYSSU 5/2/23 930

Back-Sheet By / Date / Time LA 5/2/23 1256

Temperature Method Gun # 5

Temp ☑ < 6° C Actual Temperature 4.8

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☐ Analysis ☑ Sampler Name ☑ (LA)

Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: (N/A) ☐ ☐

Container (Circle when applicable)			UnP	HCl	HNO3	H2SO4	NaOH	Trizma	NaS2O3	Other Preservative
1L	Amber	Plastic								
500 mL	Amber	Plastic								
250 mL	Amber	(Plastic)								3 Ammonium Acetate
Other	Amber	Clear ~~Plastic~~								
16oz	Amber	Clear								
8oz	Amber	Clear								
4oz	Amber	Clear								
2oz	Amber	Clear								
Col/Bacteria										
Flashpoint										
Plastic Bag										
SOC KIt										
Perchlorate										
Encore										
Frozen										

	Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials									

WO# : 70254407

70254407

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 4-27-23

Collected By: TK

Accepted By: Michelle Cornklein Acc w/ LI

Cooler Temp: 3.4 °C
4/27/23 14:50

☑ 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) 921-8280

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.
4-27-23 1020	PW	well #25 N-08355	RW		RO	Ø		1,4-Dioxane	
4-27-23 1020	PW	well #25 N-08355	RW		RO	Ø		PFOS/PFOA method	533
4-27-23 1020	PW	well #25 N-08355 FB	RW		RO	Ø		PFOS/PFOA method 533	Field Blanks

Remarks:

WO# : 70254407

PM: JSA **Due Date: 05/10/23**

CLIENT: JWD

Client: JWD

Profile #: 5152

Work ID: 1,4 Diox/PFAS 4/27

COC Page _____ of _____

☐ Use Po

☐ Add SCL

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP35	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1																				2																	2																	
2																																				1																	
3																																																					
4																																																					
5																																																					
6																																																					
7																																																					
8																																																					
9																																																					
10																																																					
11																																																					
12																																																					

Container Codes

Glass				Plastic		Misc.	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic	SP5T	120mL Coliform Na Thio
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	R	Terracore Kit
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma	WP	Wipe
		AG1A	(NH4Cl)	BP35	250mL Ammonium Acetate		
WG9O	8oz clear soil jar			BP3R	250mL NH4SO4-NH4OH		
WG4O	4oz clear soil jar			BP1Z	1L NaOH, Zn Acetate		
				BP1N	1L HNO3 plastic		
				BP1B	Na Thiosulfate Amber Bottle		

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClAcletic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosultate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials _____

Additional Comments

→ Please log the 2nd sample as FB".

Pace Analytical®

Sample Condition Upo

WO# : 70254407

PM: JSA **Due Date: 05/10/23**

CLIENT: JWD

Client Name: JWD

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☑ No

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

Type of Ice: Wet Blue None

Thermometer Used: THO TH148 Correction Factor: -0.3

☑ Samples on ice, cooling process has begun

Cooler Temperature(°C): 3.4 Cooler Temperature Corrected(°C): 3.1

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: SH 4/27/23

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

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

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

				COMMENTS:
Chain of Custody Present:	☑ 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 l	☑ 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).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
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 #				Positive for Sulfide? Y N
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-0024-01

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:

Type: Drinking Water
Origin: Raw Well
Routine

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Jericho Water District
125 Convent Rd.
Syosset, NY 11791
Attn To : Peter Logan
Federal ID : 2902831
Collected : 04/28/2023 11:55 AM Point N-08355
Received : 04/28/2023 02:35 PM Location Well 25
Collected By CLIENT
Sample Comments:
RUN TO WASTE

Lab No. : 70254545001
Client Sample ID.: N-08355

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 05/03/2023 9:05 AM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**10.3***		5	ug/L	1	05/04/2023 12:19	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	101%		5	%REC		05/04/2023 12:19	001 AG2R1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 05/18/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70254545

Laboratory Certifications

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

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

May 18, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: 1,4DIOXANE/PFAS 4/28
Client Job Number:
Project Number: 70254545
Laboratory Work Order Number: 23E0219

Enclosed are results of analyses for samples as received by the laboratory on May 2, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 5/18/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70254545

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E0219

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 1,4DIOXANE/PFAS 4/28

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-08355	23E0219-01	Drinking Water		EPA 533	

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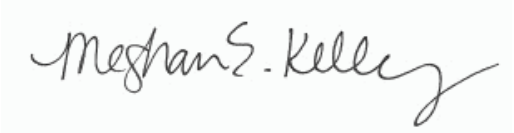
CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 1,4DIOXANE/PFAS 4/28 Sample Description: Work Order: 23E0219

Date Received: 5/2/2023

Field Sample #: N-08355 Sampled: 4/28/2023 11:55

Sample ID: 23E0219-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	15	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoropentanoic acid (PFPeA)	11	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorohexanoic acid (PFHxA)	11	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoropetanesulfonic acid (PFPeS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluoroheptanoic acid (PFHpA)	6.9	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorooctanoic acid (PFOA)	4.4	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:31	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	60.0	50-200		5/17/23 20:31
M2-8:2FTS	127	50-200		5/17/23 20:31
MPFBA	91.3	50-200		5/17/23 20:31
M3HFPO-DA	54.2	50-200		5/17/23 20:31
M6PFDA	94.6	50-200		5/17/23 20:31
M3PFBS	108	50-200		5/17/23 20:31
M7PFUnA	90.6	50-200		5/17/23 20:31
M2-6:2FTS	80.0	50-200		5/17/23 20:31
M5PFPeA	87.5	50-200		5/17/23 20:31
M5PFHxA	75.3	50-200		5/17/23 20:31
M3PFHxS	110	50-200		5/17/23 20:31
M4PFHpA	82.1	50-200		5/17/23 20:31
M8PFOA	80.4	50-200		5/17/23 20:31
M8PFOS	110	50-200		5/17/23 20:31
M9PFNA	81.2	50-200		5/17/23 20:31
MPFDoA	87.8	50-200		5/17/23 20:31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E0219-01 [N-08355]	B339147	250	1.00	05/03/23

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B339147 - EPA 533										
Blank (B339147-BLK1)				Prepared: 05/03/23 Analyzed: 05/17/23						
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L							
Perfluoropetanesulfonic acid (PFPeS)	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Surrogate: M2-4:2FTS	*49.6*		ng/L	37.5		132	50-200			
Surrogate: M2-8:2FTS	*62.9*		ng/L	38.4		164	50-200			
Surrogate: MPFBA	*53.8*		ng/L	40.0		134	50-200			
Surrogate: M3HFPO-DA	*42.9*		ng/L	40.0		107	50-200			
Surrogate: M6PFDA	*58.6*		ng/L	40.0		147	50-200			
Surrogate: M3PFBS	*59.3*		ng/L	37.3		159	50-200			
Surrogate: M7PFUnA	*51.7*		ng/L	40.0		129	50-200			
Surrogate: M2-6:2FTS	*51.4*		ng/L	38.0		135	50-200			
Surrogate: M5PFPeA	*52.6*		ng/L	40.0		131	50-200			
Surrogate: M5PFHxA	*52.4*		ng/L	40.0		131	50-200			
Surrogate: M3PFHxS	*62.6*		ng/L	37.9		165	50-200			
Surrogate: M4PFHpA	*54.9*		ng/L	40.0		137	50-200			
Surrogate: M8PFOA	*57.0*		ng/L	40.0		142	50-200			
Surrogate: M8PFOS	*56.9*		ng/L	38.4		148	50-200			
Surrogate: M9PFNA	*52.9*		ng/L	40.0		132	50-200			
Surrogate: MPFDoA	*51.6*		ng/L	40.0		129	50-200			
LCS (B339147-BS1)				Prepared: 05/03/23 Analyzed: 05/17/23						
Perfluorobutanoic acid (PFBA)	2.32	2.0	ng/L	2.00		116	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.94	2.0	ng/L	1.77		110	50-150			
Perfluoropentanoic acid (PFPeA)	2.19	2.0	ng/L	2.00		109	50-150			
Perfluorohexanoic acid (PFHxA)	2.07	2.0	ng/L	2.00		103	50-150			
11Cl-PF3OUdS (F53B Major)	1.66	2.0	ng/L	1.88		87.9	50-150			
9Cl-PF3ONS (F53B Minor)	1.96	2.0	ng/L	1.86		105	50-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B339147 - EPA 533										
LCS (B339147-BS1)				Prepared: 05/03/23 Analyzed: 05/17/23						
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.02	2.0	ng/L	1.88		107	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.16	2.0	ng/L	2.00		108	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.18	2.0	ng/L	1.92		113	50-150			
Perfluorodecanoic acid (PFDA)	2.44	2.0	ng/L	2.00		122	50-150			
Perfluorododecanoic acid (PFDoA)	1.90	2.0	ng/L	2.00		94.9	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.82	2.0	ng/L	1.78		102	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.98	2.0	ng/L	1.91		104	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.01	2.0	ng/L	1.87		107	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.96	2.0	ng/L	1.83		107	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	2.14	2.0	ng/L	2.00		107	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	2.21	2.0	ng/L	2.00		110	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.91	2.0	ng/L	1.90		100	50-150			
Perfluoropetanesulfonic acid (PFPeS)	1.84	2.0	ng/L	1.88		97.8	50-150			
Perfluoroundecanoic acid (PFUnA)	2.47	2.0	ng/L	2.00		124	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.04	2.0	ng/L	2.00		102	50-150			
Perfluoroheptanoic acid (PFHpA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorooctanoic acid (PFOA)	2.24	2.0	ng/L	2.00		112	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.17	2.0	ng/L	1.85		118	50-150			
Perfluorononanoic acid (PFNA)	1.72	2.0	ng/L	2.00		86.2	50-150			
Surrogate: M2-4:2FTS	*33.6*		ng/L	37.5		89.5	50-200			
Surrogate: M2-8:2FTS	*40.9*		ng/L	38.4		107	50-200			
Surrogate: MPFBA	*41.8*		ng/L	40.0		105	50-200			
Surrogate: M3HFPO-DA	*33.6*		ng/L	40.0		84.0	50-200			
Surrogate: M6PFDA	*44.0*		ng/L	40.0		110	50-200			
Surrogate: M3PFBS	*41.7*		ng/L	37.3		112	50-200			
Surrogate: M7PFUnA	*38.9*		ng/L	40.0		97.3	50-200			
Surrogate: M2-6:2FTS	*38.4*		ng/L	38.0		101	50-200			
Surrogate: M5PFPeA	*41.8*		ng/L	40.0		105	50-200			
Surrogate: M5PFHxA	*41.5*		ng/L	40.0		104	50-200			
Surrogate: M3PFHxS	*43.6*		ng/L	37.9		115	50-200			
Surrogate: M4PFHpA	*40.9*		ng/L	40.0		102	50-200			
Surrogate: M8PFOA	*44.0*		ng/L	40.0		110	50-200			
Surrogate: M8PFOS	*41.5*		ng/L	38.4		108	50-200			
Surrogate: M9PFNA	*40.8*		ng/L	40.0		102	50-200			
Surrogate: MPFDoA	*41.6*		ng/L	40.0		104	50-200			
LCS Dup (B339147-BSD1)				Prepared: 05/03/23 Analyzed: 05/17/23						
Perfluorobutanoic acid (PFBA)	2.30	2.0	ng/L	2.00		115	50-150	0.805	30	
Perfluorobutanesulfonic acid (PFBS)	1.80	2.0	ng/L	1.77		102	50-150	7.65	30	
Perfluoropentanoic acid (PFPeA)	2.00	2.0	ng/L	2.00		100	50-150	8.65	30	
Perfluorohexanoic acid (PFHxA)	1.91	2.0	ng/L	2.00		95.4	50-150	8.15	30	
11Cl-PF3OUdS (F53B Major)	1.70	2.0	ng/L	1.88		90.3	50-150	2.66	30	
9Cl-PF3ONS (F53B Minor)	2.04	2.0	ng/L	1.86		110	50-150	3.93	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.78	2.0	ng/L	1.88		94.7	50-150	12.6	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.95	2.0	ng/L	2.00		97.6	50-150	10.1	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.77	2.0	ng/L	1.92		92.3	50-150	20.6	30	
Perfluorodecanoic acid (PFDA)	2.78	2.0	ng/L	2.00		139	50-150	12.8	30	
Perfluorododecanoic acid (PFDoA)	1.95	2.0	ng/L	2.00		97.7	50-150	2.90	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B339147 - EPA 533										
LCS Dup (B339147-BSD1)				Prepared: 05/03/23 Analyzed: 05/17/23						
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.71	2.0	ng/L	1.78		96.1	50-150	6.08	30	
Perfluoroheptanesulfonic acid (PFHpS)	2.11	2.0	ng/L	1.91		110	50-150	6.17	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.84	2.0	ng/L	1.87		98.3	50-150	8.65	30	
Perfluorohexanesulfonic acid (PFHxS)	1.93	2.0	ng/L	1.83		106	50-150	1.42	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	2.03	2.0	ng/L	2.00		101	50-150	5.11	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	2.14	2.0	ng/L	2.00		107	50-150	3.09	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.33	2.0	ng/L	1.90		122	50-150	19.8	30	
Perfluoropetanesulfonic acid (PFPeS)	1.72	2.0	ng/L	1.88		91.7	50-150	6.48	30	
Perfluoroundecanoic acid (PFUnA)	2.33	2.0	ng/L	2.00		116	50-150	6.02	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.97	2.0	ng/L	2.00		98.7	50-150	3.15	30	
Perfluoroheptanoic acid (PFHpA)	2.14	2.0	ng/L	2.00		107	50-150	6.43	30	
Perfluorooctanoic acid (PFOA)	1.92	2.0	ng/L	2.00		95.8	50-150	15.7	30	
Perfluorooctanesulfonic acid (PFOS)	2.00	2.0	ng/L	1.85		108	50-150	8.46	30	
Perfluorononanoic acid (PFNA)	1.55	2.0	ng/L	2.00		77.3	50-150	10.9	30	
Surrogate: M2-4:2FTS	*35.0*		ng/L	37.5		93.3	50-200			
Surrogate: M2-8:2FTS	*46.0*		ng/L	38.4		120	50-200			
Surrogate: MPFBA	*39.8*		ng/L	40.0		99.5	50-200			
Surrogate: M3HFPO-DA	*30.8*		ng/L	40.0		77.1	50-200			
Surrogate: M6PFDA	*39.4*		ng/L	40.0		98.5	50-200			
Surrogate: M3PFBS	*42.8*		ng/L	37.3		115	50-200			
Surrogate: M7PFUnA	*38.4*		ng/L	40.0		96.0	50-200			
Surrogate: M2-6:2FTS	*36.5*		ng/L	38.0		95.8	50-200			
Surrogate: M5PFPeA	*39.7*		ng/L	40.0		99.3	50-200			
Surrogate: M5PFHxA	*39.1*		ng/L	40.0		97.7	50-200			
Surrogate: M3PFHxS	*45.3*		ng/L	37.9		119	50-200			
Surrogate: M4PFHpA	*41.4*		ng/L	40.0		103	50-200			
Surrogate: M8PFOA	*40.8*		ng/L	40.0		102	50-200			
Surrogate: M8PFOS	*40.0*		ng/L	38.4		104	50-200			
Surrogate: M9PFNA	*38.5*		ng/L	40.0		96.2	50-200			
Surrogate: MPFDoA	*39.8*		ng/L	40.0		99.5	50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA
Perfluoropetanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023

K.A.I-
23E0219

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 4/28/2023 **Results Requested By:** 5/15/2023

Workorder: 70254545 **Workorder Name:** 1,4DIOXANE/PFAS 4/28

Report To	Subcontract To
Jennifer Aracri Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040	Pace New England 39 Spruce St. East Longmeadow, MA 01028 Phone (413)525-2332

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other	Requested Analysis: PFAS by 533	LAB USE ONLY
1	N-08355	PS	4/28/2023 11:55	70254545001	Drinking	1	X	
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature] PACE	5/1/23 1540	[signature]	0930 5-2-23
2				
3				

Comments: 25 Compound List

Cooler Temperature on Receipt 4.8 °C | **Custody Seal** Y or (N) | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

MC

FedEx® Tracking

DELIVERED

Tuesday

5/2/2023 at 9:30 am

Signed for by: A.MULLIER

Obtain Proof of delivery

DELIVERY STATUS

Delivered

Shipment is 1 of 2 pieces

TRACKING ID

647678494687

FROM
MELVILLE, NY US

Label Created
5/1/2023 5:12 PM

PACKAGE RECEIVED BY FEDEX
MELVILLE, NY
5/1/2023 6:07 PM

IN TRANSIT
WINDSOR LOCKS, CT
5/2/2023 7:52 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
5/2/2023 8:04 AM

DELIVERED
EAST LONGMEADOW, MA US

Delivered
5/2/2023 at 9:30 AM

View travel history

Want updates on this shipment? Enter your email and we will do the rest!

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SUBMIT

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Manage Delivery

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F:413-525-6405
www.pacelabs.com

Table of Contents

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Pace
PEOPLE ADVANCING SCIENC

Client Pace - Long Island

Project PFAS 533 - JG

MCP/RCP Required N/A

Deliverable Package Req. N/A

Location 1,4 DIOXANE/PFAS 4/28

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☐ Fed Ex ☑ Walk In ☐ Other ☐

Received By / Date / Time AAM/5-2-23/0930

Back-Sheet By / Date / Time AAM/5-2-23/11.52

Temperature Method Temp Gun # 5

Temp ☑ < 6° C Actual Temperature 4.8

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

Notes regarding Samples/COC outside of SOP:

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑

Project ☑ IDs ☑ Collection Date/Time ☐

All Samples Proper pH: (N/A) ☐ ☐

Container (Circle when applicable)	UnP	HCl	HNO3	H2SO4	NaOH	Trizma	NaS2O3	Other Preservative
1L Amber Plastic								
500 mL Amber Plastic								
250 mL Amber (Plastic)								2-Ammonium acetate
Other Amber Clear Plastic								
16oz Amber Clear								
8oz Amber Clear								
4oz Amber Clear								
2oz Amber Clear								
Col/Bacteria								
Flashpoint								
Plastic Bag								
SOC Kit								
Perchlorate								
Encore								
Frozen								

	Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials									

WO# : 70254545

70254545

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 4-28-23

Collected By: TK

Accepted By: [signature] 14:35

Cooler Temp: 4.8 °C (B)

☑ WELL OFF LINE Ran to Waste

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water Dist

Address: 125 Cenvenor 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.
4-28-23 1155	PW	well #25 N-08355	RW		RO	0		1,4-Dioxane	
4-28-23 1155	PW	well #25 N-08355	RW		RO	0		PFOS/PFOA method 533	

Remarks:

WO# : 70254545
PM: JSA Due Date: 05/11/23
CLIENT: JWD

Client: JWD Profile #: 5152

Work ID: 14 OZOX/PFAS 4/28 COC Page _____ of _____

☑ Use F

☐ Add SCLOGFD to first sample

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG3A	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1																				2																	2																		
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10																																																					
11																																																					
12																																																					

Container Codes

Glass				Plastic		Misc.	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic	SP5T	120mL Coliform Na Thio
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	R	Terracore Kit
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma	WP	Wipe
		AG1A	(NH4Cl)	BP35	250mL Ammonium Acetate		
WG9O	8oz clear soil jar			BP3R	250mL NH4SO4-NH4OH		
WG4O	4oz clear soil jar			BP1Z	1L NaOH, Zn Acetate		
				BP1N	1L HNO3 plastic		
				BP1B	Na Thiosulfate Amber Bottle		

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClAcetetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials _____

Additional Comments

Pace Analytical®

Sample Condition Upon R

WO# : 70254545
PM: JSA Due Date: 05/11/23
CLIENT: JWD

Client Name: JWD

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☑ No

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

Type of Ice: Wet Blue None

Thermometer Used: TH0: TH148 Correction Factor: -0.3

☑ Samples on ice, cooling process has begun

Cooler Temperature(°C): 4.8 Cooler Temperature Corrected(°C): 4.5

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: SH 4/28/23

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

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

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

				COMMENTS:
Chain of Custody Present:	☑ 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 L	☑ 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: SCWT OIL	☑ Yes	☐ No		12.
All containers needing preservation have been checked?	☐ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #.				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
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-0024-01

Laboratory Results

Results for the samples and analytes requested

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575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Jericho Water District
125 Convent Rd.
Syosset, NY 11791
Attn To : Peter Logan
Federal ID : 2902831
Collected : 05/16/2023 09:02 AM Point N-10149
Received : 05/16/2023 09:55 AM Location Well 20
Collected By CLIENT

Lab No. : 70256477001
Client Sample ID.: N-10149

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.
RUN TO WASTE
2 MIN

Analytical Method: ASTM D7237-10

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Cyanide, Free	<10.0		1	ug/L	200	05/19/2023 10:51	001 BP3C1/1

Analytical Method: EPA 180.1

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Turbidity	<1.0		1	NTU	5	05/17/2023 12:49	001 BP1U1/1

Analytical Method: EPA 200.7

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Ca Hardness as CaCO3 (SM 2340B	25.7		1	mg/L		05/19/2023 7:12 PM	001 BP4N1/1
Calcium	10.3		1	mg/L		05/19/2023 7:12 PM	001 BP4N1/1
Iron	0.11		1	mg/L	0.3	05/19/2023 7:12 PM	001 BP4N1/1
Magnesium	3.7		1	mg/L		05/19/2023 7:12 PM	001 BP4N1/1
Manganese	<0.010		1	mg/L	0.3	05/19/2023 7:12 PM	001 BP4N1/1
Sodium	12.7		1	mg/L		05/19/2023 7:12 PM	001 BP4N1/1
Tot Hardness asCaCO3 (SM 2340B	41.0	N3	1	mg/L		05/19/2023 7:12 PM	001 BP4N1/1
Zinc	<0.020		1	mg/L	5	05/19/2023 7:12 PM	001 BP4N1/1

Analytical Method: EPA 200.8

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Antimony	<0.40		1	ug/L	6	05/19/2023 12:11	001 BP4N1/1
Arsenic	<1.0		1	ug/L	10	05/19/2023 12:11	001 BP4N1/1
Barium	0.0068		1	mg/L	2	05/19/2023 12:11	001 BP4N1/1
Beryllium	<0.30		1	ug/L	4	05/19/2023 12:11	001 BP4N1/1
Cadmium	<1.0		1	ug/L	5	05/19/2023 12:11	001 BP4N1/1
Chromium	<0.0070		1	mg/L	0.1	05/19/2023 12:11	001 BP4N1/1
Copper	0.0088		1	mg/L	1.3	05/19/2023 12:11	001 BP4N1/1
Lead	<1.0		1	ug/L	15	05/19/2023 12:11	001 BP4N1/1
Mercury	<0.20		1	ug/L	2	05/19/2023 12:11	001 BP4N1/1
Nickel	0.0015		1	mg/L		05/19/2023 12:11	001 BP4N1/1
Selenium	<2.0		1	ug/L	50	05/19/2023 12:11	001 BP4N1/1
Silver	<0.0010		1	mg/L	0.1	05/19/2023 12:11	001 BP4N1/1
Thallium	<0.30		1	ug/L	2	05/19/2023 12:11	001 BP4N1/1

Qualifiers:
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Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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Laboratory Results

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Routine

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125 Convent Rd.
Syosset, NY 11791
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Federal ID : 2902831
Collected : 05/16/2023 09:02 AM Point N-10149
Received : 05/16/2023 09:55 AM Location Well 20
Collected By CLIENT

Lab No. : 70256477001
Client Sample ID.: N-10149

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.
RUN TO WASTE
2 MIN

Analytical Method: EPA 300.0

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Chloride	18.6		1	mg/L	250	05/26/2023 12:10	001 BP1U1/1
Fluoride	<0.10		1	mg/L	2.2	05/26/2023 12:10	001 BP1U1/1
Sulfate	12.0		1	mg/L	250	05/26/2023 12:10	001 BP1U1/1

Analytical Method: EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrate as N	3.8		5	mg/L	10	05/16/2023 11:48	001 BP1U1/1
Nitrate-Nitrite (as N)	3.8		5	mg/L		05/16/2023 11:48	001 BP1U1/1

Analytical Method: EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	05/16/2023 9:32 PM	001 BP1U1/1

Analytical Method: EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1,1-Trichloroethane	0.60		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1-Dichloroethane	4.9		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1-Dichloroethene	0.75		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2

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Results for the samples and analytes requested

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Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

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125 Convent Rd.
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Attn To : Peter Logan
Federal ID : 2902831
Collected : 05/16/2023 09:02 AM Point N-10149
Received : 05/16/2023 09:55 AM Location Well 20
Collected By CLIENT

Lab No. : 70256477001
Client Sample ID.: N-10149

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.
RUN TO WASTE
2 MIN

1,4-Dichlorobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Benzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Bromodichloromethane	1.4		1	ug/L		05/19/2023 9:32 AM	001 VG9C1/2
Bromoform	1.0		1	ug/L		05/19/2023 9:32 AM	001 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Chloroform	3.7		1	ug/L		05/19/2023 9:32 AM	001 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Dibromochloromethane	1.3		1	ug/L		05/19/2023 9:32 AM	001 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Dichlorodifluoromethane	<0.50	L2	1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	05/19/2023 9:32 AM	001 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Styrene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Toluene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Total Trihalomethanes (Calc.)	7.4		1	ug/L	80	05/19/2023 9:32 AM	001 VG9C1/2
Trichloroethene	3.1		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	05/19/2023 9:32 AM	001 VG9C1/2
cis-1,2-Dichloroethene	1.6		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2

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Collected By CLIENT

Lab No. : 70256477001
Client Sample ID.: N-10149

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.
RUN TO WASTE
2 MIN

sec-Butylbenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	05/19/2023 9:32 AM	001 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	94%		1	%REC		05/19/2023 9:32 AM	001 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	98%		1	%REC		05/19/2023 9:32 AM	001 VG9C1/2

Analytical Method: Field Method

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Field Temperature	15.7	N3	1	deg C		05/16/2023 9:02 AM	001 BP1U1/1
Field pH	6.82	N3	1	Std. Units		05/16/2023 9:02 AM	001 BP1U1/1

Analytical Method: SM22 2120B

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Apparent Color	<5.0		1	units		05/16/2023 10:09	001 BP1U1/1
pH	6.6		1	Std. Units		05/16/2023 10:09	001 BP1U1/1

Analytical Method: SM22 2150B

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Odor @ 60 Degrees C	No odor observed		1		3	05/16/2023 11:11	001 AG2U1/1

Analytical Method: SM22 2320B

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Alkalinity, Total as CaCO3	21.8		1	mg/L		05/23/2023 10:11	001 BP1U1/1

Analytical Method: SM22 2330 LSI

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Corrosivity	-2.42		1			05/26/2023 3:43 PM	001 BP1U1/1

Analytical Method: SM22 2540C

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Total Dissolved Solids	117	D6	1	mg/L		05/18/2023 6:47 PM	001 BP1U1/1

Analytical Method: SM22 4500 NH3 H

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

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

Lab No. : 70256477001
Client Sample ID.: N-10149

Federal ID : 2902831
Collected : 05/16/2023 09:02 AM Point N-10149
Received : 05/16/2023 09:55 AM Location Well 20
Collected By CLIENT

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.
RUN TO WASTE
2 MIN

Nitrogen, Ammonia	<0.10	1	mg/L		05/18/2023 12:38	001 BP1U1/1

Analytical Method: SM22 5540C Prep Method: SM22 5540C Prep Date: 05/17/2023 10:02

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
LAS Molecular Weight, g/mol	320		1			05/17/2023 10:34	001 BP1U1/1
MBAS, Calculated as LAS	<0.080		1	mg/L		05/17/2023 10:34	001 BP1U1/1

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Jericho Water District
125 Convent Rd.
Syosset, NY 11791
Attn To : Peter Logan
Federal ID : 2902831
Collected : 05/16/2023 09:30 AM Point N-10149
Received : 05/16/2023 09:55 AM Location Well 20
Collected By CLIENT

Lab No. : 70256477003
Client Sample ID.: N-10149

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 05/19/2023 1:45 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**1.9***		1	ug/L	1	05/20/2023 11:11	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	107%		1	%REC		05/20/2023 11:11	003 AG2R1/2

Analytical Method: EPA 525.3 Prep Method: EPA 525.3 Prep Date: 05/19/2023 1:16 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Simazine	<0.070		1	ug/L	4	05/23/2023 12:26	003 AG1A1/1
Surr: 1,3-Dimethyl-2-nitrobenzene(S)	78%		1	%REC		05/23/2023 12:26	003 AG1A1/1
Surr: Benzo(a)pyrene-d12 (S)	84%		1	%REC		05/23/2023 12:26	003 AG1A1/1
Surr: Triphenylphosphate (S)	113%		1	%REC		05/23/2023 12:26	003 AG1A1/1

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 05/31/2023

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
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WorkOrder :
70256477

Laboratory Certifications

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

All parameters are reported to meet the NYS ELAP required detection limits (RDL) for drinking water analyses. For the analytes listed below, the reporting limit is below the laboratory verified limit of quantification (LOQ) but greater than the method detection limit (MDL); values are estimated.

Method	Method	Unit	MDL*	RDL	LOQ
505	Toxaphene	ug/L	0.57	1	2.5
505	Chlordane	ug/L	0.096	0.2	0.5
525.2	Simazine	ug/L	0.031	0.07	0.1
525.2	Benzo(a)pyrene	ug/L	0.017	0.02	0.1
549.2	Diquat	ug/L	0.165	0.4	1

* Determined annually; subject to change but must always be below the RDL and LOQ.

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WorkOrder :
70256477

Additional Qualifiers

D6 - The precision between the sample and sample duplicate exceeded laboratory control limits.
L2 - Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

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May 30, 2023

Jennifer Aracri
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: POC/IOC/PERC/PFAS 5/16
Client Job Number:
Project Number: 70256477
Laboratory Work Order Number: 23E2613

Enclosed are results of analyses for samples as received by the laboratory on May 18, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Jennifer Aracri

REPORT DATE: 5/30/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70256477

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E2613

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: POC/IOC/PERC/PFAS 5/16

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
N-10149 FB	23E2613-01	Field Blank		EPA 533	
N-10149	23E2613-02	Drinking Water		EPA 533	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 533

Qualifications:

PF-18

Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:

M7PFUnA
23E2613-02[N-10149]

MPFDoA
23E2613-02[N-10149]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-8:2FTS
B340982-BS1

M8PFOS
23E2613-02[N-10149]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

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Project Location: POC/IOC/PERC/PFAS 5/16 Sample Description: Work Order: 23E2613

Date Received: 5/18/2023

Field Sample #: N-10149 FB Sampled: 5/16/2023 09:02

Sample ID: 23E2613-01

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 10:54	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	63.4	50-200		5/23/23 10:54
M2-8:2FTS	134	50-200		5/23/23 10:54
MPFBA	88.8	50-200		5/23/23 10:54
M3HFPO-DA	84.8	50-200		5/23/23 10:54
M6PFDA	92.9	50-200		5/23/23 10:54
M3PFBS	83.0	50-200		5/23/23 10:54
M7PFUnA	83.1	50-200		5/23/23 10:54
M2-6:2FTS	93.6	50-200		5/23/23 10:54
M5PFPeA	83.1	50-200		5/23/23 10:54
M5PFHxA	80.0	50-200		5/23/23 10:54
M3PFHxS	82.2	50-200		5/23/23 10:54
M4PFHpA	82.4	50-200		5/23/23 10:54
M8PFOA	86.4	50-200		5/23/23 10:54
M8PFOS	84.0	50-200		5/23/23 10:54
M9PFNA	87.7	50-200		5/23/23 10:54
MPFDoA	86.3	50-200		5/23/23 10:54

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Project Location: POC/IOC/PERC/PFAS 5/16 Sample Description: Work Order: 23E2613

Date Received: 5/18/2023

Field Sample #: N-10149 Sampled: 5/16/2023 09:30

Sample ID: 23E2613-02

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	5.9	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoropentanoic acid (PFPeA)	3.7	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorohexanoic acid (PFHxA)	3.1	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluoroheptanoic acid (PFHpA)	2.3	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorooctanoic acid (PFOA)	2.8	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	5/22/23	5/23/23 11:23	JR2

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	50.2		50-200		5/23/23 11:23
M2-8:2FTS	52.3		50-200		5/23/23 11:23
MPFBA	77.6		50-200		5/23/23 11:23
M3HFPO-DA	77.6		50-200		5/23/23 11:23
M6PFDA	52.0		50-200		5/23/23 11:23
M3PFBS	79.0		50-200		5/23/23 11:23
M7PFUnA	**46.4**	*	50-200	PF-18	5/23/23 11:23
M2-6:2FTS	67.4		50-200		5/23/23 11:23
M5PFPeA	74.4		50-200		5/23/23 11:23
M5PFHxA	71.8		50-200		5/23/23 11:23
M3PFHxS	72.7		50-200		5/23/23 11:23
M4PFHpA	71.0		50-200		5/23/23 11:23
M8PFOA	66.9		50-200		5/23/23 11:23
M8PFOS	**46.9**	*	50-200	S-29	5/23/23 11:23
M9PFNA	58.3		50-200		5/23/23 11:23
MPFDoA	**43.5**	*	50-200	PF-18	5/23/23 11:23

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Sample Extraction Data

Prep Method:EPA 533 **Analytical Method:EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E2613-01 [N-10149 FB]	B340982	278	1.00	05/22/23
23E2613-02 [N-10149]	B340982	278	1.00	05/22/23

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B340982 - EPA 533										
Blank (B340982-BLK1)				Prepared: 05/22/23 Analyzed: 05/23/23						
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0	ng/L							
Perfluoropetanesulfonic acid (PFPeS)	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Surrogate: M2-4:2FTS	*29.8*		ng/L	37.0		80.6	50-200			
Surrogate: M2-8:2FTS	*63.7*		ng/L	37.8		168	50-200			
Surrogate: MPFBA	*34.1*		ng/L	39.4		86.6	50-200			
Surrogate: M3HFPO-DA	*31.3*		ng/L	39.4		79.6	50-200			
Surrogate: M6PFDA	*34.1*		ng/L	39.4		86.5	50-200			
Surrogate: M3PFBS	*33.9*		ng/L	36.7		92.4	50-200			
Surrogate: M7PFUnA	*31.5*		ng/L	39.4		79.8	50-200			
Surrogate: M2-6:2FTS	*36.6*		ng/L	37.5		97.8	50-200			
Surrogate: M5PFPeA	*33.3*		ng/L	39.4		84.5	50-200			
Surrogate: M5PFHxA	*31.1*		ng/L	39.4		78.9	50-200			
Surrogate: M3PFHxS	*33.4*		ng/L	37.3		89.5	50-200			
Surrogate: M4PFHpA	*31.4*		ng/L	39.4		79.6	50-200			
Surrogate: M8PFOA	*33.4*		ng/L	39.4		84.8	50-200			
Surrogate: M8PFOS	*32.1*		ng/L	37.8		85.0	50-200			
Surrogate: M9PFNA	*33.0*		ng/L	39.4		83.7	50-200			
Surrogate: MPFDoA	*31.8*		ng/L	39.4		80.7	50-200			
LCS (B340982-BS1)				Prepared: 05/22/23 Analyzed: 05/23/23						
Perfluorobutanoic acid (PFBA)	1.91	1.9	ng/L	1.91		99.9	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.51	1.9	ng/L	1.69		89.5	50-150			
Perfluoropentanoic acid (PFPeA)	1.72	1.9	ng/L	1.91		90.0	50-150			
Perfluorohexanoic acid (PFHxA)	1.69	1.9	ng/L	1.91		88.4	50-150			
11Cl-PF3OUdS (F53B Major)	1.51	1.9	ng/L	1.80		83.9	50-150			
9Cl-PF3ONS (F53B Minor)	1.74	1.9	ng/L	1.78		98.1	50-150			

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B340982 - EPA 533											
LCS (B340982-BS1)				Prepared: 05/22/23 Analyzed: 05/23/23							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.69	1.9	ng/L	1.80		93.8		50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.61	1.9	ng/L	1.91		84.2		50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.49	1.9	ng/L	1.83		81.4		50-150			
Perfluorodecanoic acid (PFDA)	1.73	1.9	ng/L	1.91		90.9		50-150			
Perfluorododecanoic acid (PFDoA)	2.28	1.9	ng/L	1.91		119		50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.62	1.9	ng/L	1.70		95.6		50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.62	1.9	ng/L	1.82		88.7		50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.45	1.9	ng/L	1.78		81.5		50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.52	1.9	ng/L	1.75		87.2		50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.68	1.9	ng/L	1.91		88.0		50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.69	1.9	ng/L	1.91		88.8		50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.20	1.9	ng/L	1.81		66.5		50-150			
Perfluoropetanesulfonic acid (PFPeS)	1.59	1.9	ng/L	1.79		88.4		50-150			
Perfluoroundecanoic acid (PFUnA)	2.11	1.9	ng/L	1.91		110		50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.48	1.9	ng/L	1.91		77.5		50-150			
Perfluoroheptanoic acid (PFHpA)	1.72	1.9	ng/L	1.91		89.9		50-150			
Perfluorooctanoic acid (PFOA)	1.64	1.9	ng/L	1.91		85.8		50-150			
Perfluorooctanesulfonic acid (PFOS)	1.66	1.9	ng/L	1.76		93.8		50-150			
Perfluorononanoic acid (PFNA)	1.43	1.9	ng/L	1.91		74.9		50-150			
Surrogate: M2-4:2FTS	*32.0*		ng/L	35.8		89.4		50-200			
Surrogate: M2-8:2FTS	*87.7*		ng/L	36.6		**240**	*	50-200			S-29
Surrogate: MPFBA	*36.9*		ng/L	38.2		96.6		50-200			
Surrogate: M3HFPO-DA	*32.6*		ng/L	38.2		85.5		50-200			
Surrogate: M6PFDA	*41.2*		ng/L	38.2		108		50-200			
Surrogate: M3PFBS	*35.5*		ng/L	35.6		99.9		50-200			
Surrogate: M7PFUnA	*35.4*		ng/L	38.2		92.6		50-200			
Surrogate: M2-6:2FTS	*36.9*		ng/L	36.3		102		50-200			
Surrogate: M5PFPeA	*37.1*		ng/L	38.2		97.1		50-200			
Surrogate: M5PFHxA	*36.1*		ng/L	38.2		94.6		50-200			
Surrogate: M3PFHxS	*33.7*		ng/L	36.2		93.0		50-200			
Surrogate: M4PFHpA	*35.6*		ng/L	38.2		93.4		50-200			
Surrogate: M8PFOA	*36.3*		ng/L	38.2		95.2		50-200			
Surrogate: M8PFOS	*34.1*		ng/L	36.6		93.2		50-200			
Surrogate: M9PFNA	*37.6*		ng/L	38.2		98.6		50-200			
Surrogate: MPFDoA	*34.1*		ng/L	38.2		89.2		50-200			
LCS Dup (B340982-BSD1)				Prepared: 05/22/23 Analyzed: 05/23/23							
Perfluorobutanoic acid (PFBA)	2.04	2.0	ng/L	1.97		103		50-150	6.66	50	
Perfluorobutanesulfonic acid (PFBS)	1.60	2.0	ng/L	1.74		92.0		50-150	5.94	50	
Perfluoropentanoic acid (PFPeA)	1.94	2.0	ng/L	1.97		98.5		50-150	12.2	50	
Perfluorohexanoic acid (PFHxA)	1.74	2.0	ng/L	1.97		88.3		50-150	3.11	50	
11Cl-PF3OUdS (F53B Major)	1.58	2.0	ng/L	1.86		85.2		50-150	4.84	50	
9Cl-PF3ONS (F53B Minor)	1.89	2.0	ng/L	1.84		103		50-150	8.01	50	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.96	2.0	ng/L	1.86		105		50-150	14.8	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.77	2.0	ng/L	1.97		89.6		50-150	9.38	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.77	2.0	ng/L	1.89		93.3		50-150	16.8	50	
Perfluorodecanoic acid (PFDA)	1.88	2.0	ng/L	1.97		95.3		50-150	7.89	50	
Perfluorododecanoic acid (PFDoA)	2.27	2.0	ng/L	1.97		115		50-150	0.416	50	

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B340982 - EPA 533										
LCS Dup (B340982-BSD1)				Prepared: 05/22/23 Analyzed: 05/23/23						
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.71	2.0	ng/L	1.75		97.4	50-150	5.07	50	
Perfluoroheptanesulfonic acid (PFHpS)	1.59	2.0	ng/L	1.88		84.7	50-150	1.43	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.47	2.0	ng/L	1.84		79.6	50-150	0.794	50	
Perfluorohexanesulfonic acid (PFHxS)	1.60	2.0	ng/L	1.80		88.5	50-150	4.74	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.73	2.0	ng/L	1.97		88.0	50-150	3.29	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.81	2.0	ng/L	1.97		92.1	50-150	6.87	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.16	2.0	ng/L	1.87		61.8	50-150	4.08	50	
Perfluoropetanesulfonic acid (PFPeS)	1.47	2.0	ng/L	1.85		79.4	50-150	7.45	50	
Perfluoroundecanoic acid (PFUnA)	2.35	2.0	ng/L	1.97		119	50-150	11.1	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.68	2.0	ng/L	1.97		85.2	50-150	12.7	50	
Perfluoroheptanoic acid (PFHpA)	1.76	2.0	ng/L	1.97		89.4	50-150	2.67	50	
Perfluorooctanoic acid (PFOA)	1.63	2.0	ng/L	1.97		82.7	50-150	0.436	50	
Perfluorooctanesulfonic acid (PFOS)	1.52	2.0	ng/L	1.82		83.6	50-150	8.34	50	
Perfluorononanoic acid (PFNA)	1.94	2.0	ng/L	1.97		98.5	50-150	30.4	50	
Surrogate: M2-4:2FTS	*31.0*		ng/L	37.0		83.8	50-200			
Surrogate: M2-8:2FTS	*55.5*		ng/L	37.8		147	50-200			
Surrogate: MPFBA	*35.3*		ng/L	39.4		89.6	50-200			
Surrogate: M3HFPO-DA	*34.0*		ng/L	39.4		86.2	50-200			
Surrogate: M6PFDA	*38.1*		ng/L	39.4		96.7	50-200			
Surrogate: M3PFBS	*35.6*		ng/L	36.7		96.9	50-200			
Surrogate: M7PFUnA	*33.7*		ng/L	39.4		85.5	50-200			
Surrogate: M2-6:2FTS	*38.0*		ng/L	37.5		101	50-200			
Surrogate: M5PFPeA	*34.7*		ng/L	39.4		88.2	50-200			
Surrogate: M5PFHxA	*34.2*		ng/L	39.4		86.8	50-200			
Surrogate: M3PFHxS	*36.0*		ng/L	37.4		96.3	50-200			
Surrogate: M4PFHpA	*33.5*		ng/L	39.4		85.1	50-200			
Surrogate: M8PFOA	*35.5*		ng/L	39.4		90.2	50-200			
Surrogate: M8PFOS	*34.6*		ng/L	37.8		91.6	50-200			
Surrogate: M9PFNA	*33.9*		ng/L	39.4		86.0	50-200			
Surrogate: MPFDoA	*32.7*		ng/L	39.4		83.0	50-200			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
PF-18	Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.
S-29	Extracted Internal Standard is outside of control limits.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorobutanesulfonic acid (PFBS)	NH,NY,VT-DW,ME,NJ,PA
Perfluoropentanoic acid (PFPeA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorohexanoic acid (PFHxA)	NH,NY,VT-DW,ME,NJ,PA
11Cl-PF3OUdS (F53B Major)	NH,NY,VT-DW,ME,NJ,PA
9Cl-PF3ONS (F53B Minor)	NH,NY,VT-DW,ME,NJ,PA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH,NY,VT-DW,ME,NJ,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH,NY,VT-DW,ME,NJ,PA
8:2 Fluorotelomersulfonic acid (8:2FTS A)	NH,NY,VT-DW,ME,NJ,PA
Perfluorodecanoic acid (PFDA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorododecanoic acid (PFDoA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoroheptanesulfonic acid (PFHpS)	NH,NY,VT-DW,ME,NJ,PA
4:2 Fluorotelomersulfonic acid (4:2FTS A)	NH,NY,VT-DW,ME,NJ,PA
Perfluorohexanesulfonic acid (PFHxS)	NH,NY,VT-DW,ME,NJ,PA
Perfluoro-4-oxapentanoic acid (PFMPA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoro-5-oxahexanoic acid (PFMBA)	NH,NY,VT-DW,ME,NJ,PA
6:2 Fluorotelomersulfonic acid (6:2FTS A)	NH,NY,VT-DW,ME,NJ,PA
Perfluoropetanesulfonic acid (PFPeS)	NH,NY,VT-DW,ME,NJ,PA
Perfluoroundecanoic acid (PFUnA)	NH,NY,VT-DW,ME,NJ,PA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH,NY,VT-DW,ME,NJ,PA
Perfluoroheptanoic acid (PFHpA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ,PA
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ,PA
Perfluorononanoic acid (PFNA)	NH,NY,VT-DW,ME,NJ,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023

23E2613

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: NY
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 5/16/2023 Results Requested By: 5/31/2023

Workorder: 70256477 Workorder Name: POC/IOC/PERC/PFAS 5/16

Report To	Subcontract To
Jennifer Aracri Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040	Pace New England 39 Spruce St. East Longmeadow, MA 01028 Phone (413)525-2332

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other	PFAS by 533	LAB USE ONLY
1	N-10149 FB	PS	5/16/2023 09:02	70256477002	Drinking	1	X	
2	N-10149	PS	5/16/2023 09:30	70256477003	Drinking	1	X	
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1			Allyson Mahon	0923 5-18-23
2				
3				

Comments: 25 Compound List

Cooler Temperature on Receipt 2.1 °C | Custody Seal Y or (N) | Received on Ice (Y) or N | Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

East Longmeadow, MA. 01028
P: 413-525-2332
F:413-525-6405
www.pacelabs.com

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Pace
PEOPLE ADVANCING SCIENC

Client Pace-NY
Project 70256477
MCP/RCP Required No
Deliverable Package Req. No
Location NY
PWSID# (When Applicable) NA
Arrival Method:
Courier ☐ Fed Ex ☑ Walk In ☐ Other ☐
Received By / Date / Time AM 5/18/23 923
Back-Sheet By / Date / Time SA 5/18/23 2341
Temperature Method gun # 5
Temp ☑ < 6° C Actual Temperature 2.1
Rush Samples: Yes / (No) Notify
Short Hold: Yes / (No) Notify

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)
Client ☑ Analysis ☑ Sampler Name ☑
Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: (N/A) ☐ ☐

Notes regarding Samples/COC outside of SOP:

Container (Circle when applicable)	UnP	HCl	HNO3	H2SO4	NaOH	Trizma	NaS2O3	Other Preservative
1L Amber Plastic								
500 mL Amber Plastic								
250 mL Amber (Plastic)								3 ammonium acetate
Other Amber Clear Plastic								
16oz Amber Clear								
8oz Amber Clear								
4oz Amber Clear								
2oz Amber Clear								
Col/Bacteria								
Flashpoint								
Plastic Bag								
SOC Kit								
Perchlorate								
Encore								
Frozen								

	Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials									

FedEx® Tracking

DELIVERED

Thursday

5/18/2023 at 9:23 am

Signed for by: A.ALYSSA

Obtain Proof of delivery

DELIVERY STATUS

Delivered

TRACKING ID

647678500778

FROM
MELVILLE, NY US

Label Created
5/17/2023 3:12 PM

PACKAGE RECEIVED BY FEDEX
MELVILLE, NY
5/17/2023 5:48 PM

IN TRANSIT
WINDSOR LOCKS, CT
5/18/2023 7:35 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
5/18/2023 8:43 AM

DELIVERED
EAST LONGMEADOW, MA US

Delivered
5/18/2023 at 9:23 AM

View travel history

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

SUBMIT

MORE OPTIONS

Manage Delivery

Shipment facts

WO# : 70256477

70256477

747

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 5/16/23

Collected By: AL

Accepted By: Syed P-LI, 9:55

Cooler Temp: 14.3 °C (B)

☑ WELL OFF LINE 20
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

Phone #: ~~516-921-~~ 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.
5/16/23 9:00	PW	well 20 N-10149	RW		RO			Bac 0 min	
5/16/23 9:02	↓	↓	↓		↓			Bac 2 min	
5/16/23 9:05								Bac 5 min	
5/16/23 9:10								Bac 10 min	
5/16/23 9:30								Bac 30 min	
5/16/23 9:02								POC	001
5/16/23 9:02							6.82/15.7°C	IOC w/Perchlorate	~~002~~ 001
5/16/23 9:30								1,4 Dioxane	~~002~~ 003
5/16/23 9:30								Pfos/Pfoa 533 method w/FB	002
5/16/23 9:30	↓	↓	↓		↓			Simazine	~~003~~

Remarks:

WO# : 70256477

PM: JSA Due Date: 05/26/23

CLIENT: JWD

Client: JWD Profile #: 5152

Work ID: PCL/TOC/PERC/PFAS 5/16 COC Page _____ of _____

☐ Use Point Numbe ☐ Add SCLOGFD t

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG3S	AG4U	AG3U	AG2U	AG1U	AG3A	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1			2																	2			1		1												2															1	
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Container Codes

Glass				Plastic		Misc.	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic	SP5T	120mL Coliform Na Thio
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	R	Terracore Kit
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma	WP	Wipe
		AG1A	(NH4Cl)	BP3S	250mL Ammonium Acetate		
WG9O	8oz clear soil jar			BP3R	250mL NH4SO4-NH4OH		
WG4O	4oz clear soil jar			BP1Z	1L NaOH, Zn Acetate		
				BP1N	1L HNO3 plastic		
				BP1B	Na Thiosulfate Amber Bottle		

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials _____

Additional Comments

→ Please log-in the 2nd sample as "___ FB",

Pace Analytical®

Client Name: JWD

WO#: 7025647 1

PM: JSA Due Date: 05/26/23

CLIENT: JWD

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☑ No

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

Type of Ice: Wet (Blue) None

Thermometer Used: THO: TH148 Correction Factor: -0.3

☑ Samples on ice, cooling process has begun

Cooler Temperature(°C): 14.3 Cooler Temperature Corrected(°C): 14.0

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil [☑ N/A, water sample)

Date and Initials of person examining contents: SH 5/16/23

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

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

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

				COMMENTS:
Chain of Custody Present:	☑ 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 I	☑ 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: SC WT Oil				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC293085				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☑ Yes	☐ No	☐ N/A	14.
KI starch test strips Lot #. 14-860				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☑ Yes	☐ No	☐ N/A	15.
Lead Acetate Strips Lot # 14-862				Positive for Sulfide? Y N
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-0024-01

301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

Analytical Results Report For **Pace Analytical Services, Inc.-NY**

Project 70256477
Workorder 3303824
Report ID 247120 on 5/26/2023

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on May 18, 2023.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):
Tara Bernier - Pace Analytical Services, Inc.-NY
Reporting - Pace Analytical Services, Inc.-NY

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Sarah Leung

Sarah Leung *(ALS Digital Signature)*
Project Coordinator

Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3303824001	N-10149	NY Potable Water	05/16/2023 09:02	05/18/2023 09:12	CBC	Collected By Client

Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.

Project Notations

Sample Notations

Lab ID	Sample ID

Result Notations

Notation Ref.

Detected Results Summary

Client Sample ID	N-10149	Collected	05/16/2023 09:02
Lab Sample ID	3303824001	Lab Receipt	05/18/2023 09:12

Compound	Result	Units	RDL	MDL	Method	Flag
WET CHEMISTRY						
Perchlorate	2.2J	ug/L	4.0	0.20	EPA 314.0	#

Results

Client Sample ID	N-10149	Collected	05/16/2023 09:02
Lab Sample ID	3303824001	Lab Receipt	05/18/2023 09:12

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Perchlorate	2.2J	J	ug/L	4.0	0.20	EPA 314.0	1	05/23/2023 17:57	DMG	A

Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3303824001	N-10149	EPA 314.0	N/A	

QUALITY CONTROL SAMPLES

WET CHEMISTRY

QC Batch

QC Batch	1004885	Prep Method	N/A
Date	N/A	Analysis Method	EPA 314.0
Tech.			

Associated Samples

3303824001

Matrix Spike 3672771 (MS) 3303594001 (non-Project Sample) For QC Batch 1004885

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3672772 (MSD) 3303594001 (non-Project Sample) For QC Batch 1004885

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Perchlorate	14797-73-0	MS	26.10	1.90	25	96.6	80 - 120		
Perchlorate	14797-73-0	MSD	26.10	1.90	25	96.9	80 - 120	RPD 0.26 (Max-15)	

Matrix Spike 3672775 (MS) 3304130001 (non-Project Sample) For QC Batch 1004885

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate 3672776 (MSD) 3304130001 (non-Project Sample) For QC Batch 1004885

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Perchlorate	14797-73-0	MS	27.20	0	25	109	80 - 120		
Perchlorate	14797-73-0	MSD	26.90	0	25	108	80 - 120	RPD 1.07 (Max-15)	

Lab Control Standard 3672767 (LCS) Created on 05/22/2023 10:46 For QC Batch 1004885

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Perchlorate	14797-73-0	LCS	26.60		25	106	85 - 115		

Method Blank 3672773 (MB) Created on 05/22/2023 10:46 For QC Batch 1004885

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Perchlorate	14797-73-0	BLK	ND	ug/L	4.0	ND

QUALITY CONTROL SAMPLES

WET CHEMISTRY (cont.)

Lab Control Standard 3672774 (LCS) Created on 05/22/2023 10:46 For QC Batch 1004885

RESULTS

Compound	CAS No		Result (ug/L)	Orig. Result (ug/L)	Spk Added (ug/L)	Rec. (%)	Limits (%)	RPD Limit (%)	Qualifiers
Perchlorate	14797-73-0	LCS	27.80		25	111	85 - 115		

Method Blank 3673455 (MB) Created on 05/23/2023 12:59 For QC Batch 1004885

RESULTS

Compound	CAS No		Result	Units	RDL	Qualifiers
Perchlorate	14797-73-0	BLK	ND	ug/L	4.0	ND

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3303824001	N-10149	N/A	N/A	N/A		EPA 314.0	1004885

3303824

Logged By: KSB
PM: SSL

Chain of Custody

PASI New York Laboratory

Pace Analytical®
www.pacelabs.com

Workorder: 70256477 **Workorder Name:** POC/IOC/PERC/PFAS 5/16 **Results Requested By:** 5/26/2023

Report / Invoice To	Subcontract To
Jennifer Aracri Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040 Email: jennifer.aracri@pacelabs.com	**ALS -Middletown** 301 Fulling Mill Road Middletown, PA 17057 P.O. 70256477 JSA

State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: 3140 Perchlorate by IC		LAB USE ONLY
1	N-10149	5/16/2023 09:02	70256477001	Drinking							X		
2													
3													
4													
5													

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature] client	5/17/23 18:00	FEDEX	
2	FEDEX		DD/ALS	5/18/23 09:12
3				

Temp By: DD | WO Temp (°C): 573 | Therm ID: 10

Receipt Info Completed By: DD

Cooler Custody Seal Intact	Y N (NA)	
Sample Custody Seal Intact	Y N (NA)	
Received on Ice	(Y) N NA	
Cooler & Samples Intact	(Y) N	
Correct Containers Provided	(Y) N	
Sample Label/COC Agree	(Y) N	
Adequate Sample Volumes	(Y) N	
CR6 Samples Filtered	Y N NA	
OP Samples Filtered	Y N NA	
VOA Headspace Present	Y N NA	
Voa Trip Blank	Y N NA	
NJ≤ 4 Days?	(Y) N	
Rad Screen (uCi)	—	
Courier/Tracking #:	6476 7850 0789	
SDWA Compliance	(Y) N	
PWSID		
WV Containers 0-6°C	Y N (NA)	

Please report in ug/L.

Cooler Temperature on Receipt ____ °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

No G/C
Sampler - client
1-125mL/UNP/P

DD
5/18/23

MC

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Jericho Water District
125 Convent Rd.
Syosset, NY 11791
Attn To : Peter Logan
Federal ID : 2902831
Collected : 06/06/2023 01:05 PM Point N-12795
Received : 06/06/2023 01:48 PM Location Well 21
Collected By CLIENT

Lab No. : 70258616001
Client Sample ID.: N-12795

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.
RUN TO WASTE

Analytical Method: ASTM D7237-10

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Cyanide, Free	<10.0		1	ug/L	200	06/12/2023 5:34 PM	001 BP3C1/1

Analytical Method: EPA 180.1

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Turbidity	<1.0		1	NTU	5	06/07/2023 6:53 PM	001 BP1U1/1

Analytical Method: EPA 200.7

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Ca Hardness as CaCO3 (SM 2340B	9.1		1	mg/L		06/12/2023 5:03 PM	001 BP4N1/1
Calcium	3.6		1	mg/L		06/12/2023 5:03 PM	001 BP4N1/1
Iron	0.030		1	mg/L	0.3	06/12/2023 5:03 PM	001 BP4N1/1
Magnesium	1.2		1	mg/L		06/12/2023 5:03 PM	001 BP4N1/1
Manganese	<0.010		1	mg/L	0.3	06/12/2023 5:03 PM	001 BP4N1/1
Sodium	5.6		1	mg/L		06/12/2023 5:03 PM	001 BP4N1/1
Tot Hardness asCaCO3 (SM 2340B	14.3	N3	1	mg/L		06/12/2023 5:03 PM	001 BP4N1/1
Zinc	<0.020		1	mg/L	5	06/12/2023 5:03 PM	001 BP4N1/1

Analytical Method: EPA 200.8

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Antimony	<0.40		1	ug/L	6	06/09/2023 6:18 PM	001 BP4N1/1
Arsenic	<1.0		1	ug/L	10	06/09/2023 6:18 PM	001 BP4N1/1
Barium	0.0033		1	mg/L	2	06/09/2023 6:18 PM	001 BP4N1/1
Beryllium	<0.30		1	ug/L	4	06/09/2023 6:18 PM	001 BP4N1/1
Cadmium	<1.0		1	ug/L	5	06/09/2023 6:18 PM	001 BP4N1/1
Chromium	<0.0070		1	mg/L	0.1	06/09/2023 6:18 PM	001 BP4N1/1
Copper	0.0089		1	mg/L	1.3	06/09/2023 6:18 PM	001 BP4N1/1
Lead	<1.0		1	ug/L	15	06/09/2023 6:18 PM	001 BP4N1/1
Mercury	<0.20		1	ug/L	2	06/09/2023 6:18 PM	001 BP4N1/1
Nickel	0.0017		1	mg/L		06/09/2023 6:18 PM	001 BP4N1/1
Selenium	<2.0		1	ug/L	50	06/09/2023 6:18 PM	001 BP4N1/1
Silver	<0.0010		1	mg/L	0.1	06/09/2023 6:18 PM	001 BP4N1/1
Thallium	<0.30		1	ug/L	2	06/09/2023 6:18 PM	001 BP4N1/1

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Jericho Water District
125 Convent Rd.
Syosset, NY 11791
Attn To : Peter Logan
Federal ID : 2902831
Collected : 06/06/2023 01:05 PM Point N-12795
Received : 06/06/2023 01:48 PM Location Well 21
Collected By CLIENT

Lab No. : 70258616001
Client Sample ID.: N-12795

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.
RUN TO WASTE

Analytical Method: EPA 300.0

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Chloride	7.1		1	mg/L	250	06/15/2023 12:02	001 BP1U1/1
Fluoride	<0.10		1	mg/L	2.2	06/15/2023 12:02	001 BP1U1/1
Sulfate	<5.0		1	mg/L	250	06/15/2023 12:02	001 BP1U1/1

Analytical Method: EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrate as N	3.4		5	mg/L	10	06/07/2023 12:59	001 BP1U1/1
Nitrate-Nitrite (as N)	3.4		5	mg/L		06/07/2023 12:59	001 BP1U1/1

Analytical Method: EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	06/06/2023 11:27	001 BP1U1/1

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 06/09/2023 12:11

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**2.3***		1	ug/L	1	06/12/2023 6:56 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	116%		1	%REC		06/12/2023 6:56 PM	001 AG2R1/2

Analytical Method: Field Method

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Field Temperature	13.3	N3	1	deg C		06/06/2023 1:05 PM	001 BP3C1/1
Field pH	6.60	N3	1	Std. Units		06/06/2023 1:05 PM	001 BP3C1/1

Analytical Method: SM22 2120B

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Apparent Color	<5.0		1	units		06/06/2023 8:26 PM	001 BP1U1/1
pH	5.3		1	Std. Units		06/06/2023 8:26 PM	001 BP1U1/1

Analytical Method: SM22 2150B

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Odor @ 60 Degrees C	No odor observed		1		3	06/06/2023 10:21	001 AG2U1/1

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Laboratory Results

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

Sample Information:
Type: Drinking Water
Origin: Raw Well
Routine

Jericho Water District
125 Convent Rd.
Syosset, NY 11791
Attn To : Peter Logan
Federal ID : 2902831
Collected : 06/06/2023 01:05 PM Point N-12795
Received : 06/06/2023 01:48 PM Location Well 21
Collected By CLIENT

Lab No. : 70258616001
Client Sample ID.: N-12795

Sample Comments:
Samples were received on the same day of collection on ice and are above 6 degrees Celcius. Samples were placed on ice by the lab and the cooling process has begun.
RUN TO WASTE

Analytical Method: SM22 2320B

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Alkalinity, Total as CaCO3	1.7		1	mg/L		06/09/2023 1:36 PM	001 BP1U1/1

Analytical Method: SM22 2330 LSI

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Corrosivity	-4.25		1			06/13/2023 1:14 PM	001 BP1U1/1

Analytical Method: SM22 2540C

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Total Dissolved Solids	48.0	D6	1	mg/L		06/09/2023 11:44	001 BP1U1/1

Analytical Method: SM22 4500 NH3 H

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrogen, Ammonia	<0.10		1	mg/L		06/08/2023 1:24 PM	001 BP1U1/1

Analytical Method: SM22 5540C Prep Method: SM22 5540C Prep Date: 06/06/2023 11:58

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
LAS Molecular Weight, g/mol	320		1			06/07/2023 12:16	001 BP1U1/1
MBAS, Calculated as LAS	<0.080		1	mg/L		06/07/2023 12:16	001 BP1U1/1

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
U - Indicates the compound was analyzed for, but not detected
See qualifiers page for additional qualifier definitions.

Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

575 Broad Hollow Road, Melville, NY 11747
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www.pacelabs.com

WorkOrder :
70258616

Laboratory Certifications

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (516) 370-6000 FAX: (516) 886-5526
www.pacelabs.com

WorkOrder :
70258616

Additional Qualifiers

D6 - The precision between the sample and sample duplicate exceeded laboratory control limits.
N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

WO# : 70258616

70258616

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 6/6/23

Collected By: AL

Accepted By: PCLI 13:45

Cooler Temp: 13.4 °C (B)

☑ WELL OFF LINE 21

☐ WELL RUN TO SYSTEM

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: Jericho Water

Address: 125 Convent Rd Syosset

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.
6/6/23 1:05	PW	Well 21 N-12795	RW		S			1,4 Dioxane	
6/6/23 1:05	PW	Well 21 -N-12795	RW		RO		6.60/13.3°C	IOC	

Remarks: ☆ Please put a Rush ☆

WO#: 70258616
PM: JSA Due Date: 06/16/23
CLIENT: JWD

Client: JWD Profile #: 5152

Work ID: 1,4 DIOX/IOC 6/6 COC Page _____ of _____

☐ Use Point

☐ Add SCLOC

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	DG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	CG1U	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	IOC	SOC
1																				2																																1	
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12																																																				

Container Codes

Glass				Plastic		Misc.	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic	SP5T	120mL Coliform Na Thio
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	R	Terracore Kit
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic	WG2U	2oz Unpreserved Jar
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic	WGFU	4oz Unpreserved Jar
DG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic	WGKU	8oz Unpreserved Jar
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	WGDU	16oz Unpreserved Jar
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic	ZPLC	Ziplock Bag
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic	TEDL	Tedlar Bag
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic	BG1H	1L HCL Clear Glass
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle	GN	General
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma	WP	Wipe
		AG1A	(NH4Cl)	BP3S	250mL Ammonium Acetate		
WG9O	8oz clear soil jar			BP3R	250mL NH4SO4-NH4OH		
WG4O	4oz clear soil jar			BP1Z	1L NaOH, Zn Acetate		
				BP1N	1L HNO3 plastic		
				BP1B	Na Thiosulfate Amber Bottle		

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClAcletic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosultate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials _____

Additional Comments

→ Please use "BP4N".

WO#: 70258616
PM: JSA Due Date: 06/16/23
CLIENT: JWD

Client Name: JWD Project #

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☑ Yes ☐ No Temp Blank Present: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other Type of Ice: Wet (Blue) None

Thermometer Used: TH 148 Correction Factor: -0.3 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 15.1 Cooler Temperature Corrected(°C): 14.8 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 6.0°C

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

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 (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: SH 6/6/23

				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 MS/MSD)	☑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/Analysis Matrix:	☑Yes	☐No		12.
	SL WT OIL OTHER			

Date and Initials of person checking preservation: SH 6/6/23

All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC293085				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑Yes	☐No	☐N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☑Yes	☐No	☐N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot # 14-860				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul	☑Yes	☐No	☐N/A	15.
Lead Acetate Strips Lot # 142822				Positive for Sulfide? Y N
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	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

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