

January 7, 2021

Incorporated Village of Mineola
PWS ID No. NY2902839
MCL Deferral for 1,4-dioxane
Quarterly Report – First Quarter 2021

Introduction

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

The enclosed is a report describing the IVM's progress towards maintaining the highest quality of water for our customers and meeting the deadlines set forth in the deferral approval. An updated schedule for these efforts is contained in **Attachment A**.

Corrective Action Plan Milestones – Well 4

The Well 4 AOP project is currently in the design phase and the Village expects to submit a design report to the local and state health departments by February of this year. Detailed design of the facility is being completed simultaneously and documents are on schedule to be submitted in August. The pilot study report was completed last quarter. After submission, these documents have to be reviewed by the local regulatory agencies. Once this review is completed, the Village will then be able to conduct the public bidding process to award a contract for the treatment facility construction to begin.

It should be noted that, although the Village was granted a deferral for this facility, Well 4 was not operated at all last quarter and will only be used by the Village as a last-on, first-off well to handle an emergency condition.

Public Notification

In accordance with the terms of the deferral, the Village notified the public of its MCL deferral in multiple ways. A link to the public notification document provided by the NYSDOH was posted on the Village website and Facebook page, and a postcard with a direct URL link to this document was sent out to all IVM customers. Documentation of such contact is contained in **Attachment B**.

Analytical Sampling

Sample results for Well 4 taken during the fourth quarter of 2020 are contained in the below tables. Full laboratory reports for each sample are contained in **Attachment C**.

1,4-dioxane (ppb)

Well	Date		
	10/27/2020	11/17/2020	12/8/2020
Well 4 (N-3185)	0.58	0.53	0.50

PFOA (ppt)

Well	Date		
	10/27/2020	11/17/2020	12/8/2020
Well 4 (N-3185)	20.9	18.2	23.8

PFOS (ppt)

Well	Date		
	10/27/2020	11/17/2020	12/8/2020
Well 4 (N-3185)	7.8	6.2	6.4

Conclusion

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

Should you have any questions, please contact the Village at 516-746-0750 or visit the website, www.mineola-ny.gov.

Very truly yours,

Board of Trustees
Incorporated Village of Mineola

Enclosures

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

ATTACHMENT A

Incorporated Village of Mineola
Project Schedule Associated with MCL Deferral

Inc. Village of Mineola
MCL Deferral

Well 4
AOP Project Schedule

Task Name		2020				2021				2022				2023			
	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
Design																	
Permitting																	
Construction																	
Startup and Testing																	
Plant in Operation																	

ATTACHMENT B



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New Year's Holiday Sanitation Schedule »

Village Offices will be closed a half day on Thursday, December 31, 2020, and all day on Friday, January 1, 2021, for...

Operation Santa Time Change »

Operation Santa Time ChangeThe Mineola Volunteer Fire Department is starting Operation Santa tonight, December 20, at 6...

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Sanitation Information



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Village of Mineola

155 Washington Avenue, Mineola, NY 11501

Phone: (516) 746-0750

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2020 Mineola Emerging Contaminants Deferral Public Notice

POSTED ON: DECEMBER 15, 2020 - 10:43AM

[Click here to read notice.](#)

[Well No. 4 MCL Deferral Project Schedule](#)

Village of Mineola

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Village of Mineola

December 14, 2020 at 11:29 AM



Department of Public Works Water Division

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER Deferral Issued for PFOA, PFOS and 1,4-Dioxane in the Village of Mineola

Are you receiving this notice/information?

You are receiving this notice because testing of our public water system found the chemicals perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS) are in your drinking water above New York State's maximum contaminant level of 10 ppt for PFOA/PFOS and 1 ppb for 1,4-dioxane. The MCLs are set at levels known to cause health effects in animal studies. Therefore, consumption with PFOA, PFOS or 1,4-dioxane at the level detected does not pose a significant risk. Your water continues to be acceptable for all uses.

The Village of Mineola has submitted, and the New York State Department of Health (NYS DOH) has issued, a deferral to the Village of Mineola. When a public water system is issued a deferral, the water system agrees to a schedule for corrective action, such as assessing fines, if the water district is meeting the deadlines. We are required to update the Department and the Nassau County Department of Health each calendar quarter on the status of our projects. When we meet the agreed upon deadlines, the Department can resume enforcement.

What are the health effects of PFOA and PFOS?

Available information on the health effects associated with PFOA and PFOS, chemicals, comes from studies of high-level exposure in animals or humans. Information about the chances of health effects occurring from lower levels of exposure, such as those that might occur in drinking water. As a result, finding lower levels of chemicals in drinking water prompts water suppliers and regulators to take precautionary steps to reduce exposure.



Department of Public Works Water Division

At the level of PFOA and PFOS detected in your water, exposure from drinking water and food preparation is well below PFOA and PFOS exposures associated with health effects.

What are the health effects of 1,4-dioxane?

Laboratory studies show that 1,4-dioxane caused liver cancer in animals exposed at high levels throughout their lifetime. Other types of cancer have also been reported, although less consistently than liver cancer. There is no evidence of 1,4-dioxane cancer effects in humans. The United States Environmental Protection Agency considers 1,4-dioxane a likely human carcinogen based upon studies of animals exposed to high levels of this chemical over their entire lifetimes.

At the level of 1,4-dioxane detected in your water, exposure from drinking water and food preparation is well below 1,4-dioxane exposures associated with health effects.

What is New York State doing about PFOA, PFOS and 1,4-Dioxane in public drinking water?

The New York State Department of Health (NYS DOH) has adopted a drinking water regulation that requires all public water systems to test for PFOA, PFOS and 1,4-dioxane. If found above the MCL, the water supplier must take steps to lower the level to meet the standard. Exceedances of the MCL signal that steps should be taken by the water system to reduce contaminant levels.

What is being done to remove these contaminants?

The Village of Mineola has prepared and begun to implement an action plan which includes the design and construction of an Advanced Oxidation Process (AOP) treatment system for the removal of 1,4-dioxane at the Well No. 4 site. This system also includes Granular Activated Carbon (GAC) for the removal of PFOA and PFOS. In addition, the Village recently completed the construction of a GAC facility at Well No. 7 for the removal of PFOA and PFOS. Additional information will be shared as further testing and progress occurs. This process is similar for any chemical detected in public drinking water that requires mitigation. The compliance timetable will ensure that your drinking water will meet the MCL as quickly as possible. The deferral is effective until



Department of Public Works Water Division

Where can I get more information?

For more information regarding this deferral, please contact Thomas Rini, Superintendent of Public Works at (516) 746-5291 or at 155 Washington Avenue, Mineola, NY, or the Water Division at (516) 746-0751. You may also request a paper or email copy of this notice by contacting info@mineola.ny.us. You may also contact the Nassau County Department of Health at (516) 227-9697.

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Department of Public Works Water Division

The Village of Mineola Water Division has been granted a compliance deferral by the New York State Department of Health for the recently created 1,4-dioxane and the PFOA and PFOS contaminant regulations.

To learn more about what this deferral means and the proactive steps the Village of Mineola Water Division has and continues to take to address the detection of these contaminants, please visit

<https://www.mineola-ny.gov/sites/g/files/vyhlf3481/f/uploads/>

2020 mineola emerging contaminants deferral public notice.pdf

or [https://www.facebook.com/villageofmineola/photos/pcb.](https://www.facebook.com/villageofmineola/photos/pcb.2778146302453429/2778146122453447/)

2778146302453429/2778146122453447/

To receive more information about this deferral you may also call Thomas J. Rini, Superintendent of Public Works at (516) 746-5291, or the Water Division at (516) 746-0751. To obtain a paper or email copy of the deferral notice you may also email info@mineola-ny.gov.



**Village of Mineola
155 Washington Avenue
Mineola, New York 11501**

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Department of Public Works Water Division

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER Deferral Issued for PFOA, PFOS and 1,4-Dioxane in the Village of Mineola

Why are you receiving this notice/information?

You are receiving this notice because testing of our public water system found the chemicals perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS) and 1,4-Dioxane in your drinking water above New York State's maximum contaminant level (MCL) of 10 ppt for PFOA/PFOS and 1 ppb for 1,4-dioxane. The MCLs are set well below levels known to cause health effects in animal studies. Therefore, consuming water with PFOA, PFOS or 1,4-dioxane at the level detected does not pose a significant health risk. Your water continues to be acceptable for all uses.

The Village of Mineola has submitted, and the New York State Department of Health (Department) has issued, a deferral to the Village of Mineola. When a public water system is issued a deferral, the water system agrees to a schedule for corrective action and compliance with the new MCLs. In exchange, the Department agrees to defer enforcement actions, such as assessing fines, if the water district is meeting the established deadlines. We are required to update the Department and the Nassau County Department of Health each calendar quarter on the status of our projects. If we do not meet the agreed upon deadlines, the Department can resume enforcement.

What are the health effects of PFOA and PFOS?

The available information on the health effects associated with PFOA and PFOS, like many chemicals, comes from studies of high-level exposure in animals or humans. Less is known about the chances of health effects occurring from lower levels of exposure, such as those that might occur in drinking water. As a result, finding lower levels of chemicals in drinking water prompts water suppliers and regulators to take precautions that include notifying consumers and steps to reduce exposure.

PFOA and PFOS has caused a wide range of health effects when studied in animals that were exposed to high levels. Additional studies of high-level exposures of PFOA and PFOS in people provide evidence that some of the health effects seen in animals may also occur in humans. The most consistent findings in animals were effects on the liver and immune system and impaired fetal growth and development. The United States Environmental Protection Agency considers PFOA and PFOS as having suggestive evidence for causing cancer based on studies of animals exposed to high levels of this chemical over their entire lifetimes.



Department of Public Works Water Division

At the level of PFOA and PFOS detected in your water, exposure from drinking water and food preparation is well below PFOA and PFOS exposures associated with health effects.

What are the health effects of 1,4-dioxane?

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At the level of 1,4-dioxane detected in your water, exposure from drinking water and food preparation is well below 1,4-dioxane exposures associated with health effects.

What is New York State doing about PFOA, PFOS and 1,4-Dioxane in public drinking water?

The New York State Department of Health (NYS DOH) has adopted a drinking water regulation that requires all public water systems to test for PFOA, PFOS and 1,4-dioxane. If found above the MCLs, the water supplier must take steps to lower the level to meet the standard. Exceedances of the MCL signal that steps should be taken by the water system to reduce contaminant levels.

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**Department of Public Works
Water Division**

Where can I get more information?

For more information regarding this deferral, please contact Thomas Rini, Superintendent of Public Works at (516) 746-5291 or at 155 Washington Avenue, Mineola, NY, or the Water Division at (516) 746-0751. You may also request a paper or email copy of this notice by contacting info@mineola-ny.gov. You may also contact the Nassau County Department of Health at (516) 227-9697.

If you have additional questions about these contaminants and your health, talk to your health care provider who is most familiar with your health history and can provide advice and assistance about understanding how drinking water may affect your personal health.

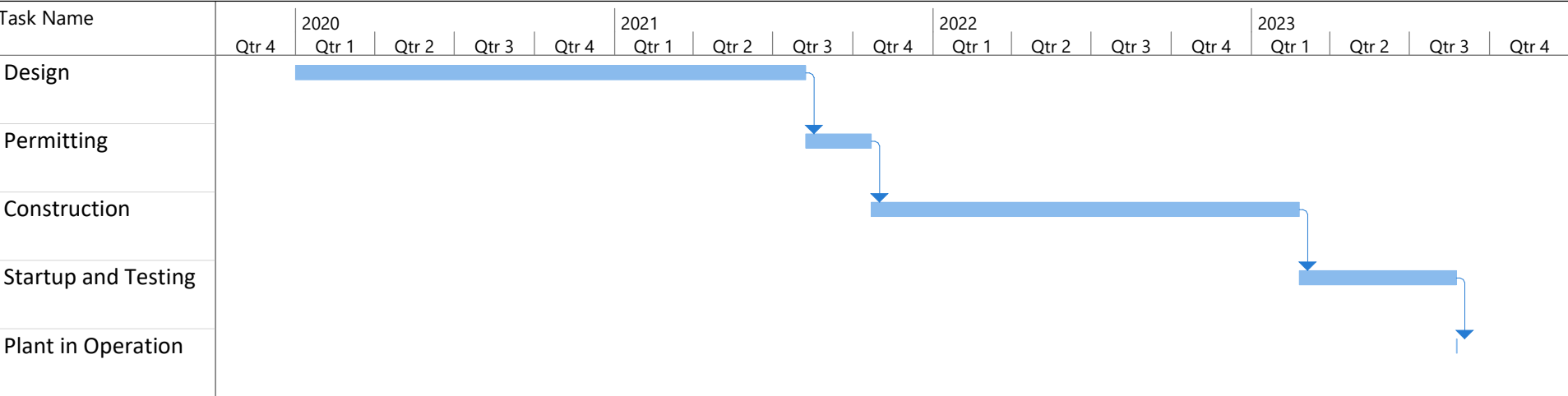
Public Water System ID# NY2902839

Date December 14, 2020

Incorporated Village of Mineola
Project Schedule Associated with MCL Deferral

Inc. Village of Mineola
MCL Deferral

Well 4
AOP Project Schedule



ATTACHMENT C

November 05, 2020

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

RE: Project: PFAS/1,4-DIOX/POC/NO3 10/27
Pace Project No.: 70151133

Dear James Martin:

Enclosed are the analytical results for sample(s) received by the laboratory on October 27, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,



Stu Murrell
stu.murrell@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
James Van Horn, D&B Engineers
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers



REPORT OF LABORATORY ANALYSIS

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

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Arizona Certification# AZ0819

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maryland Certification: #346

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70151133001	N-03185	Drinking Water	10/27/20 08:45	10/27/20 15:20
70151133002	N-03185 FIELD BLANK	Drinking Water	10/27/20 00:00	10/27/20 15:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70151133001	N-03185	EPA 522	MLM	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	CMB	10	PASI-O
		EPA 353.2	AKS	2	PACE-MV
		EPA 353.2	AKS	1	PACE-MV
70151133002	N-03185 FIELD BLANK	EPA 537.1	CMB	10	PASI-O

PACE-MV = Pace Analytical Services - Melville

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

Sample: N-03185 **Lab ID:** 70151133001 **Collected:** 10/27/20 08:45 **Received:** 10/27/20 15:20 **Matrix:** Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.58	ug/L	0.020		1	11/02/20 10:53	11/02/20 20:35	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	98	%	70-130		1	11/02/20 10:53	11/02/20 20:35		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		11/04/20 23:34	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		11/04/20 23:34	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		11/04/20 23:34	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		11/04/20 23:34	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		11/04/20 23:34	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		11/04/20 23:34	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		11/04/20 23:34	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		11/04/20 23:34	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		11/04/20 23:34	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		11/04/20 23:34	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		11/04/20 23:34	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		11/04/20 23:34	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		11/04/20 23:34	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		11/04/20 23:34	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		11/04/20 23:34	75-71-8	L2
1,1-Dichloroethane	<0.50	ug/L	0.50		1		11/04/20 23:34	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		11/04/20 23:34	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		11/04/20 23:34	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		11/04/20 23:34	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		11/04/20 23:34	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		11/04/20 23:34	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		11/04/20 23:34	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		11/04/20 23:34	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		11/04/20 23:34	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		11/04/20 23:34	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		11/04/20 23:34	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		11/04/20 23:34	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		11/04/20 23:34	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		11/04/20 23:34	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		11/04/20 23:34	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

Sample: N-03185 **Lab ID:** 70151133001 **Collected:** 10/27/20 08:45 **Received:** 10/27/20 15:20 **Matrix:** Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		11/04/20 23:34	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	103-65-1	
Styrene	<0.50	ug/L	0.50		1		11/04/20 23:34	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		11/04/20 23:34	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		11/04/20 23:34	79-34-5	
Tetrachloroethene	6.2	ug/L	0.50		1		11/04/20 23:34	127-18-4	
Toluene	<0.50	ug/L	0.50		1		11/04/20 23:34	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		11/04/20 23:34		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		11/04/20 23:34	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		11/04/20 23:34	79-00-5	
Trichloroethene	6.9	ug/L	0.50		1		11/04/20 23:34	79-01-6	D6
Trichlorofluoromethane	<0.50	ug/L	0.50		1		11/04/20 23:34	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		11/04/20 23:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		11/04/20 23:34	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		11/04/20 23:34	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		11/04/20 23:34	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		11/04/20 23:34	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		11/04/20 23:34	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	81	%	70-130		1		11/04/20 23:34	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130		1		11/04/20 23:34	460-00-4	
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
Perfluorobutanesulfonic acid	2.4	ng/L	2.0		1	11/02/20 10:40	11/04/20 04:31	375-73-5	
Perfluoroheptanoic acid	4.9	ng/L	2.0		1	11/02/20 10:40	11/04/20 04:31	375-85-9	
Perfluorohexanesulfonic acid	6.8	ng/L	2.0		1	11/02/20 10:40	11/04/20 04:31	355-46-4	
Perfluorononanoic acid	<2.0	ng/L	2.0		1	11/02/20 10:40	11/04/20 04:31	375-95-1	
Perfluorooctanesulfonic acid	7.8	ng/L	2.0	10	1	11/02/20 10:40	11/04/20 04:31	1763-23-1	
Perfluorooctanoic acid	20.9	ng/L	2.0	10	1	11/02/20 10:40	11/04/20 04:31	335-67-1	
Surrogates									
13C2-PFDA (S)	102	%	70-130		1	11/02/20 10:40	11/04/20 04:31		
13C2-PFHxA (S)	102	%	70-130		1	11/02/20 10:40	11/04/20 04:31		
NEtFOSAA-d5 (S)	96	%	70-130		1	11/02/20 10:40	11/04/20 04:31		
HFPO-DAS (S)	97	%	70-130		1	11/02/20 10:40	11/04/20 04:31		
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Melville									
Nitrate as N	5.3	mg/L	0.50		10		10/27/20 22:11	14797-55-8	
Nitrate-Nitrite (as N)	5.3	mg/L	0.50		10		10/27/20 22:11	7727-37-9	M6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

Sample: N-03185		Lab ID: 70151133001		Collected: 10/27/20 08:45		Received: 10/27/20 15:20		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2									
Analytical Method: EPA 353.2 Pace Analytical Services - Melville									
Nitrite as N	<0.050	mg/L	0.050		1		10/27/20 20:44	14797-65-0	

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ANALYTICAL RESULTS

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

Sample: N-03185 FIELD BLANK **Lab ID: 70151133002** Collected: 10/27/20 00:00 Received: 10/27/20 15:20 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	11/02/20 10:40	11/04/20 04:16	375-73-5	
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	11/02/20 10:40	11/04/20 04:16	375-85-9	
Perfluorohexanesulfonic acid	<1.9	ng/L	1.9		1	11/02/20 10:40	11/04/20 04:16	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	11/02/20 10:40	11/04/20 04:16	375-95-1	
Perfluorooctanesulfonic acid	<1.9	ng/L	1.9	10	1	11/02/20 10:40	11/04/20 04:16	1763-23-1	
Perfluorooctanoic acid	<1.9	ng/L	1.9	10	1	11/02/20 10:40	11/04/20 04:16	335-67-1	
Surrogates									
13C2-PFDA (S)	100	%	70-130		1	11/02/20 10:40	11/04/20 04:16		
13C2-PFHxA (S)	99	%	70-130		1	11/02/20 10:40	11/04/20 04:16		
NEtFOSAA-d5 (S)	92	%	70-130		1	11/02/20 10:40	11/04/20 04:16		
HFPO-DAS (S)	98	%	70-130		1	11/02/20 10:40	11/04/20 04:16		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

QC Batch: 184412

Analysis Method: EPA 524.2

QC Batch Method: EPA 524.2

Analysis Description: 524.2 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70151133001

METHOD BLANK: 902833

Matrix: Water

Associated Lab Samples: 70151133001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	11/04/20 17:12	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	11/04/20 17:12	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	11/04/20 17:12	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	11/04/20 17:12	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	11/04/20 17:12	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	11/04/20 17:12	
1,1-Dichloroethene	ug/L	<0.50	0.50	11/04/20 17:12	
1,1-Dichloropropene	ug/L	<0.50	0.50	11/04/20 17:12	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	11/04/20 17:12	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	11/04/20 17:12	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	11/04/20 17:12	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	11/04/20 17:12	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	11/04/20 17:12	
1,2-Dichloroethane	ug/L	<0.50	0.50	11/04/20 17:12	
1,2-Dichloropropane	ug/L	<0.50	0.50	11/04/20 17:12	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	11/04/20 17:12	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	11/04/20 17:12	
1,3-Dichloropropane	ug/L	<0.50	0.50	11/04/20 17:12	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	11/04/20 17:12	
2,2-Dichloropropane	ug/L	<0.50	0.50	11/04/20 17:12	
2-Chlorotoluene	ug/L	<0.50	0.50	11/04/20 17:12	
4-Chlorotoluene	ug/L	<0.50	0.50	11/04/20 17:12	
Benzene	ug/L	<0.50	0.50	11/04/20 17:12	
Bromobenzene	ug/L	<0.50	0.50	11/04/20 17:12	
Bromochloromethane	ug/L	<0.50	0.50	11/04/20 17:12	
Bromodichloromethane	ug/L	<0.50	0.50	11/04/20 17:12	
Bromoform	ug/L	<0.50	0.50	11/04/20 17:12	
Bromomethane	ug/L	<0.50	0.50	11/04/20 17:12	
Carbon tetrachloride	ug/L	<0.50	0.50	11/04/20 17:12	
Chlorobenzene	ug/L	<0.50	0.50	11/04/20 17:12	
Chlorodifluoromethane	ug/L	<0.50	0.50	11/04/20 17:12	N3
Chloroethane	ug/L	<0.50	0.50	11/04/20 17:12	
Chloroform	ug/L	<0.50	0.50	11/04/20 17:12	
Chloromethane	ug/L	<0.50	0.50	11/04/20 17:12	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	11/04/20 17:12	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	11/04/20 17:12	
Dibromochloromethane	ug/L	<0.50	0.50	11/04/20 17:12	
Dibromomethane	ug/L	<0.50	0.50	11/04/20 17:12	
Dichlorodifluoromethane	ug/L	<0.50	0.50	11/04/20 17:12	
Ethylbenzene	ug/L	<0.50	0.50	11/04/20 17:12	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

METHOD BLANK: 902833

Matrix: Water

Associated Lab Samples: 70151133001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	11/04/20 17:12	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	11/04/20 17:12	
m&p-Xylene	ug/L	<0.50	0.50	11/04/20 17:12	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	11/04/20 17:12	
Methylene Chloride	ug/L	<0.50	0.50	11/04/20 17:12	
n-Butylbenzene	ug/L	<0.50	0.50	11/04/20 17:12	
n-Propylbenzene	ug/L	<0.50	0.50	11/04/20 17:12	
o-Xylene	ug/L	<0.50	0.50	11/04/20 17:12	
p-Isopropyltoluene	ug/L	<0.50	0.50	11/04/20 17:12	
sec-Butylbenzene	ug/L	<0.50	0.50	11/04/20 17:12	
Styrene	ug/L	<0.50	0.50	11/04/20 17:12	
tert-Butylbenzene	ug/L	<0.50	0.50	11/04/20 17:12	
Tetrachloroethene	ug/L	<0.50	0.50	11/04/20 17:12	
Toluene	ug/L	<0.50	0.50	11/04/20 17:12	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	11/04/20 17:12	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	11/04/20 17:12	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	11/04/20 17:12	
Trichloroethene	ug/L	<0.50	0.50	11/04/20 17:12	
Trichlorofluoromethane	ug/L	<0.50	0.50	11/04/20 17:12	
Vinyl chloride	ug/L	<0.50	0.50	11/04/20 17:12	
1,2-Dichlorobenzene-d4 (S)	%	89	70-130	11/04/20 17:12	
4-Bromofluorobenzene (S)	%	90	70-130	11/04/20 17:12	

LABORATORY CONTROL SAMPLE: 902834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	8.8	88	70-130	
1,1,1-Trichloroethane	ug/L	10	10.0	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	10.6	106	70-130	
1,1,2-Trichloroethane	ug/L	10	9.8	98	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	11.1	111	70-130	N3
1,1-Dichloroethane	ug/L	10	9.7	97	70-130	
1,1-Dichloroethene	ug/L	10	8.8	88	70-130	
1,1-Dichloropropene	ug/L	10	10.5	105	70-130	
1,2,3-Trichlorobenzene	ug/L	10	9.1	91	70-130	
1,2,3-Trichloropropane	ug/L	10	11.0	110	70-130	
1,2,4-Trichlorobenzene	ug/L	10	8.9	89	70-130	
1,2,4-Trimethylbenzene	ug/L	10	9.3	93	70-130	
1,2-Dichlorobenzene	ug/L	10	9.0	90	70-130	
1,2-Dichloroethane	ug/L	10	10.2	102	70-130	
1,2-Dichloropropane	ug/L	10	10.2	102	70-130	
1,3,5-Trimethylbenzene	ug/L	10	9.4	94	70-130	
1,3-Dichlorobenzene	ug/L	10	9.0	90	70-130	
1,3-Dichloropropane	ug/L	10	10.4	104	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

LABORATORY CONTROL SAMPLE: 902834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	9.2	92	70-130	
2,2-Dichloropropane	ug/L	10	10.4	104	70-130	
2-Chlorotoluene	ug/L	10	9.4	94	70-130	
4-Chlorotoluene	ug/L	10	10.1	101	70-130	
Benzene	ug/L	10	9.9	99	70-130	
Bromobenzene	ug/L	10	9.0	90	70-130	
Bromochloromethane	ug/L	10	9.0	90	70-130	
Bromodichloromethane	ug/L	10	9.5	95	70-130	
Bromoform	ug/L	10	8.8	88	70-130	
Bromomethane	ug/L	10	7.9	79	70-130	
Carbon tetrachloride	ug/L	10	10.0	100	70-130	
Chlorobenzene	ug/L	10	9.3	93	70-130	
Chlorodifluoromethane	ug/L	10	9.0	90	70-130	N3
Chloroethane	ug/L	10	9.1	91	70-130	
Chloroform	ug/L	10	9.8	98	70-130	
Chloromethane	ug/L	10	7.7	77	70-130	
cis-1,2-Dichloroethene	ug/L	10	9.4	94	70-130	
cis-1,3-Dichloropropene	ug/L	10	10.3	103	70-130	
Dibromochloromethane	ug/L	10	8.8	88	70-130	
Dibromomethane	ug/L	10	9.8	98	70-130	
Dichlorodifluoromethane	ug/L	10	6.3	63	70-130	L2
Ethylbenzene	ug/L	10	9.6	96	70-130	
Hexachloro-1,3-butadiene	ug/L	10	9.7	97	70-130	
Isopropylbenzene (Cumene)	ug/L	10	9.7	97	70-130	
m&p-Xylene	ug/L	20	19.9	100	70-130	
Methyl-tert-butyl ether	ug/L	10	10.2	102	70-130	CH,IH
Methylene Chloride	ug/L	10	9.9	99	70-130	
n-Butylbenzene	ug/L	10	9.8	98	70-130	
n-Propylbenzene	ug/L	10	10.4	104	70-130	
o-Xylene	ug/L	10	9.1	91	70-130	
p-Isopropyltoluene	ug/L	10	9.5	95	70-130	
sec-Butylbenzene	ug/L	10	9.6	96	70-130	
Styrene	ug/L	10	9.2	92	70-130	
tert-Butylbenzene	ug/L	10	9.3	93	70-130	
Tetrachloroethene	ug/L	10	9.2	92	70-130	
Toluene	ug/L	10	10	100	70-130	
Total Trihalomethanes (Calc.)	ug/L		36.8			
trans-1,2-Dichloroethene	ug/L	10	9.3	93	70-130	
trans-1,3-Dichloropropene	ug/L	10	9.6	96	70-130	
Trichloroethene	ug/L	10	9.9	99	70-130	
Trichlorofluoromethane	ug/L	10	12.0	120	70-130	IH
Vinyl chloride	ug/L	10	9.0	90	70-130	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			109	70-130	

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QUALITY CONTROL DATA

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

SAMPLE DUPLICATE: 903458

Parameter	Units	70151133001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50		20	
1,1,1-Trichloroethane	ug/L	<0.50	<0.50		20	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50		20	
1,1,2-Trichloroethane	ug/L	<0.50	<0.50		20	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	<0.50		20	N3
1,1-Dichloroethane	ug/L	<0.50	<0.50		20	
1,1-Dichloroethene	ug/L	<0.50	<0.50		20	
1,1-Dichloropropene	ug/L	<0.50	<0.50		20	
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50		20	
1,2,3-Trichloropropane	ug/L	<0.50	<0.50		20	
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50		20	
1,2,4-Trimethylbenzene	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene	ug/L	<0.50	<0.50		20	
1,2-Dichloroethane	ug/L	<0.50	<0.50		20	
1,2-Dichloropropane	ug/L	<0.50	<0.50		20	
1,3,5-Trimethylbenzene	ug/L	<0.50	<0.50		20	
1,3-Dichlorobenzene	ug/L	<0.50	<0.50		20	
1,3-Dichloropropane	ug/L	<0.50	<0.50		20	
1,4-Dichlorobenzene	ug/L	<0.50	<0.50		20	
2,2-Dichloropropane	ug/L	<0.50	<0.50		20	
2-Chlorotoluene	ug/L	<0.50	<0.50		20	
4-Chlorotoluene	ug/L	<0.50	<0.50		20	
Benzene	ug/L	<0.50	<0.50		20	
Bromobenzene	ug/L	<0.50	<0.50		20	
Bromochloromethane	ug/L	<0.50	<0.50		20	
Bromodichloromethane	ug/L	<0.50	<0.50		20	
Bromoform	ug/L	<0.50	<0.50		20	
Bromomethane	ug/L	<0.50	<0.50		20	
Carbon tetrachloride	ug/L	<0.50	<0.50		20	
Chlorobenzene	ug/L	<0.50	<0.50		20	
Chlorodifluoromethane	ug/L	<0.50	<0.50		20	N3
Chloroethane	ug/L	<0.50	<0.50		20	
Chloroform	ug/L	<0.50	<0.50		20	
Chloromethane	ug/L	<0.50	<0.50		20	
cis-1,2-Dichloroethene	ug/L	<0.50	<0.50		20	
cis-1,3-Dichloropropene	ug/L	<0.50	<0.50		20	
Dibromochloromethane	ug/L	<0.50	<0.50		20	
Dibromomethane	ug/L	<0.50	<0.50		20	
Dichlorodifluoromethane	ug/L	<0.50	<0.50		20	
Ethylbenzene	ug/L	<0.50	<0.50		20	
Hexachloro-1,3-butadiene	ug/L	<0.50	<0.50		20	
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50		20	
m&p-Xylene	ug/L	<0.50	<0.50		20	
Methyl-tert-butyl ether	ug/L	<0.50	<0.50		20	
Methylene Chloride	ug/L	<0.50	<0.50		20	
n-Butylbenzene	ug/L	<0.50	<0.50		20	
n-Propylbenzene	ug/L	<0.50	<0.50		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

SAMPLE DUPLICATE: 903458

Parameter	Units	70151133001 Result	Dup Result	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	<0.50	<0.50		20	
p-Isopropyltoluene	ug/L	<0.50	<0.50		20	
sec-Butylbenzene	ug/L	<0.50	<0.50		20	
Styrene	ug/L	<0.50	<0.50		20	
tert-Butylbenzene	ug/L	<0.50	<0.50		20	
Tetrachloroethene	ug/L	6.2	6.0	3	20	
Toluene	ug/L	<0.50	<0.50		20	
Total Trihalomethanes (Calc.)	ug/L	<0.50	<0.50		20	
trans-1,2-Dichloroethene	ug/L	<0.50	<0.50		20	
trans-1,3-Dichloropropene	ug/L	<0.50	<0.50		20	
Trichloroethene	ug/L	6.9	5.0	31	20	D6
Trichlorofluoromethane	ug/L	<0.50	<0.50		20	
Vinyl chloride	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene-d4 (S)	%	81	79		20	
4-Bromofluorobenzene (S)	%	88	92		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

QC Batch:	183878	Analysis Method:	EPA 522
QC Batch Method:	EPA 522	Analysis Description:	522 MSS 1,4 Dioxane
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70151133001

METHOD BLANK: 900260 Matrix: Drinking Water

Associated Lab Samples: 70151133001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	11/02/20 15:09	
1,4-Dioxane-d8 (S)	%	96	70-130	11/02/20 15:09	

LABORATORY CONTROL SAMPLE: 900261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	2.0	99	70-130	
1,4-Dioxane-d8 (S)	%			94	70-130	

MATRIX SPIKE SAMPLE: 900262

Parameter	Units	70151331019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	15.2	2	17.8	133	70-130	M6
1,4-Dioxane-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 900263

Parameter	Units	70151331020 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	14.6	13.9	5	20	
1,4-Dioxane-d8 (S)	%	94	97		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

QC Batch:	678348	Analysis Method:	EPA 537.1
QC Batch Method:	EPA 537.1	Analysis Description:	537.1 PFOA Compounds, Water
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70151133001, 70151133002

METHOD BLANK: 3690867 Matrix: Water

Associated Lab Samples: 70151133001, 70151133002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	11/03/20 23:19	
Perfluoroheptanoic acid	ng/L	ND	2.0	11/03/20 23:19	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	11/03/20 23:19	
Perfluorononanoic acid	ng/L	ND	2.0	11/03/20 23:19	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	11/03/20 23:19	
Perfluorooctanoic acid	ng/L	ND	2.0	11/03/20 23:19	
13C2-PFDA (S)	%	97	70-130	11/03/20 23:19	
13C2-PFHxA (S)	%	95	70-130	11/03/20 23:19	
HFPO-DAS (S)	%	88	70-130	11/03/20 23:19	
NETFOSAA-d5 (S)	%	91	70-130	11/03/20 23:19	

LABORATORY CONTROL SAMPLE: 3690868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	160	167	104	70-130	
Perfluoroheptanoic acid	ng/L	160	162	101	70-130	
Perfluorohexanesulfonic acid	ng/L	160	169	105	70-130	
Perfluorononanoic acid	ng/L	160	171	107	70-130	
Perfluorooctanesulfonic acid	ng/L	160	169	106	70-130	
Perfluorooctanoic acid	ng/L	160	166	104	70-130	
13C2-PFDA (S)	%			106	70-130	
13C2-PFHxA (S)	%			101	70-130	
HFPO-DAS (S)	%			97	70-130	
NETFOSAA-d5 (S)	%			99	70-130	

LABORATORY CONTROL SAMPLE: 3690869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	2.1	106	50-150	
Perfluoroheptanoic acid	ng/L	2	2.1	104	50-150	
Perfluorohexanesulfonic acid	ng/L	2	2.1	107	50-150	
Perfluorononanoic acid	ng/L	2	ND	99	50-150	
Perfluorooctanesulfonic acid	ng/L	2	2.1	106	50-150	
Perfluorooctanoic acid	ng/L	2	2.0	102	50-150	
13C2-PFDA (S)	%			102	70-130	
13C2-PFHxA (S)	%			98	70-130	
HFPO-DAS (S)	%			96	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

LABORATORY CONTROL SAMPLE: 3690869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NETFOSAA-d5 (S)	%			93	70-130	

MATRIX SPIKE SAMPLE: 3690870

Parameter	Units	70151006001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	155	163	105	70-130	
Perfluoroheptanoic acid	ng/L	<1.9	155	155	99	70-130	
Perfluorohexanesulfonic acid	ng/L	2.9	155	166	105	70-130	
Perfluorononanoic acid	ng/L	14.2	155	176	104	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.9	155	163	104	70-130	
Perfluorooctanoic acid	ng/L	2.3	155	159	101	70-130	
13C2-PFDA (S)	%				94	70-130	
13C2-PFHxA (S)	%				92	70-130	
HFPO-DAS (S)	%				90	70-130	
NETFOSAA-d5 (S)	%				90	70-130	

SAMPLE DUPLICATE: 3690872

Parameter	Units	70151133001 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2.4	2.4	0	30	
Perfluoroheptanoic acid	ng/L	4.9	5.4	11	30	
Perfluorohexanesulfonic acid	ng/L	6.8	6.7	0	30	
Perfluorononanoic acid	ng/L	<2.0	<1.9		30	
Perfluorooctanesulfonic acid	ng/L	7.8	7.9	2	30	
Perfluorooctanoic acid	ng/L	20.9	20.2	4	30	
13C2-PFDA (S)	%	102	97			
13C2-PFHxA (S)	%	102	101			
HFPO-DAS (S)	%	97	91			
NETFOSAA-d5 (S)	%	96	93			

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QUALITY CONTROL DATA

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

QC Batch:	183192	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrite, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70151133001

METHOD BLANK: 896430 Matrix: Water

Associated Lab Samples: 70151133001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.050	10/27/20 20:42	

LABORATORY CONTROL SAMPLE: 896431

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

MATRIX SPIKE SAMPLE: 896432

Parameter	Units	70151038001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.50	100	90-110	

MATRIX SPIKE SAMPLE: 896434

Parameter	Units	70151133001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.51	102	90-110	

SAMPLE DUPLICATE: 896433

Parameter	Units	70151038001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 896435

Parameter	Units	70151133001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

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QUALITY CONTROL DATA

Project: PFAS/1,4-DIOX/POC/NO3 10/27
Pace Project No.: 70151133

QC Batch:	183197	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70151133001

METHOD BLANK: 896444 Matrix: Water

Associated Lab Samples: 70151133001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.050	10/27/20 21:40	

LABORATORY CONTROL SAMPLE: 896445

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

MATRIX SPIKE SAMPLE: 896446

Parameter	Units	70151133001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	5.3	5	10.9	111	90-110	M6

MATRIX SPIKE SAMPLE: 896448

Parameter	Units	70151107001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	9.7	5	14.6	98	90-110	

SAMPLE DUPLICATE: 896447

Parameter	Units	70151133001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	5.3	5.4	1	20	

SAMPLE DUPLICATE: 896449

Parameter	Units	70151107001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	9.7	9.0	8	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PFAS/1,4-DIOX/POC/NO3 10/27

Pace Project No.: 70151133

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70151133001	N-03185	EPA 522	183878	EPA 522	183968
70151133001	N-03185	EPA 524.2	184412		
70151133001	N-03185	EPA 537.1	678348	EPA 537.1	678871
70151133002	N-03185 FIELD BLANK	EPA 537.1	678348	EPA 537.1	678871
70151133001	N-03185	EPA 353.2	183197		
70151133001	N-03185	EPA 353.2	183192		

REPORT OF LABORATORY ANALYSIS

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70151133

Client Info:

Name or Code:

Address:

INC. VILLAGE OF MINEOLA

WATER DEPARTMENT

Phone #:

Attn:

42 EAST SECOND STREET

Proj. # or (Name) **MINEOLA, NY 11501**

Bill To:

Copies To:

Sample Info:

[illegible]

Remarks:

Sample Condition Upon Receipt

Pace Analytical

Client Name:

Pro

WO#: 70151133

PM: SNM

Due Date: 11/06/20

CLIENT: MWD

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

Tracking #:

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

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

Thermometer Used: TH091

Correction Factor: -0.2

Cooler Temperature (°C): 20.1

Cooler Temperature Corrected (°C): 19.9

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

Temperature Blank Present: ☐ Yes ☒ No

Type of Ice: ☒ Wet ☐ Blue ☐ None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: HWH 11/27/20

Did samples originate from a foreign source (internationally, 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 MS/MSD):	☒ Yes	☐ No	8.
Correct Containers Used:	☒ Yes	☐ No	9.
-Pace Containers Used:	☒ Yes	☐ No	10.
Containers Intact:	☒ Yes	☐ No	11.
Filtered volume received for Dissolved tests	☒ Yes	☐ No ☐ N/A	Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒ Yes	☐ No	12.
-Includes date/time/ID/Analysis Matrix SL WT OIL			
All containers needing preservation have been checked	☒ Yes	☐ No ☐ N/A	13.
pH paper Lot #			
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	☒ Yes	☐ No ☐ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis			
Samples checked for dechlorination:	☐ Yes	☐ No ☐ N/A	14.
KI starch test strips Lot #			
Residual chlorine strips Lot #			
Headspace in VOA Vials (>6mm):	☐ Yes	☒ No ☐ N/A	15.
Trip Blank Present:	☐ Yes	☒ No ☐ N/A	16.
Trip Blank Custody Seals Present	☐ Yes	☒ No ☐ N/A	
Pace Trip Blank Lot # (if applicable):			

Field Data Required?

Y / N

Date/Time:

Client Notification/ Resolution:

Person Contacted:

Comments/ Resolution:

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

F-LI-C-002-rev.02

November 30, 2020

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

RE: Project: WELL 4 11/17
Pace Project No.: 70153789

Dear James Martin:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,



Stu Murrell
stu.murrell@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Allen Fok, D & B Engineers
James Van Horn, D&B Engineers
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WELL 4 11/17

Pace Project No.: 70153789

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Arizona Certification# AZ0819

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maryland Certification: #346

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WELL 4 11/17

Pace Project No.: 70153789

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70153789001	N-03185	Drinking Water	11/17/20 09:15	11/17/20 15:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WELL 4 11/17

Pace Project No.: 70153789

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70153789001	N-03185	SM22 9223B Colilert	GFD	2	PACE-MV
		EPA 522	TJD	2	PACE-MV
		EPA 524.2	KGG	62	PACE-MV
		EPA 537.1	SWR	9	PASI-O
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV

PACE-MV = Pace Analytical Services - Melville

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WELL 4 11/17

Pace Project No.: 70153789

Sample: N-03185 **Lab ID:** 70153789001 **Collected:** 11/17/20 09:15 **Received:** 11/17/20 15:00 **Matrix:** Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO Total Coliform DW									
Analytical Method: SM22 9223B Colilert Preparation Method: SM22 9223B Colilert									
Pace Analytical Services - Melville									
Total Coliforms	Absent				1	11/17/20 18:25	11/18/20 12:35		
E.coli	Absent				1	11/17/20 18:25	11/18/20 12:35		
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522									
Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.53	ug/L	0.020		1	11/23/20 12:38	11/24/20 00:22	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	99	%	70-130		1	11/23/20 12:38	11/24/20 00:22		
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		11/23/20 13:24	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		11/23/20 13:24	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50		1		11/23/20 13:24	75-27-4	
Bromoform	<0.50	ug/L	0.50		1		11/23/20 13:24	75-25-2	
Bromomethane	<0.50	ug/L	0.50		1		11/23/20 13:24	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		11/23/20 13:24	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		11/23/20 13:24	75-45-6	N3
Chloroethane	<0.50	ug/L	0.50		1		11/23/20 13:24	75-00-3	
Chloroform	<0.50	ug/L	0.50		1		11/23/20 13:24	67-66-3	
Chloromethane	<0.50	ug/L	0.50		1		11/23/20 13:24	74-87-3	L2
2-Chlorotoluene	<0.50	ug/L	0.50		1		11/23/20 13:24	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		11/23/20 13:24	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50		1		11/23/20 13:24	124-48-1	
Dibromomethane	<0.50	ug/L	0.50		1		11/23/20 13:24	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		11/23/20 13:24	75-71-8	L2
1,1-Dichloroethane	<0.50	ug/L	0.50		1		11/23/20 13:24	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		11/23/20 13:24	107-06-2	
1,1-Dichloroethene	0.52	ug/L	0.50		1		11/23/20 13:24	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		11/23/20 13:24	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		11/23/20 13:24	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		11/23/20 13:24	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		11/23/20 13:24	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		11/23/20 13:24	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		11/23/20 13:24	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		11/23/20 13:24	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		11/23/20 13:24	10061-02-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WELL 4 11/17

Pace Project No.: 70153789

Sample: N-03185 **Lab ID:** 70153789001 **Collected:** 11/17/20 09:15 **Received:** 11/17/20 15:00 **Matrix:** Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Ethylbenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		11/23/20 13:24	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		11/23/20 13:24	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		11/23/20 13:24	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		11/23/20 13:24	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		11/23/20 13:24	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	103-65-1	
Styrene	<0.50	ug/L	0.50		1		11/23/20 13:24	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		11/23/20 13:24	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		11/23/20 13:24	79-34-5	
Tetrachloroethene	7.4	ug/L	0.50		1		11/23/20 13:24	127-18-4	
Toluene	<0.50	ug/L	0.50		1		11/23/20 13:24	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50		1		11/23/20 13:24		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		11/23/20 13:24	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		11/23/20 13:24	79-00-5	
Trichloroethene	8.4	ug/L	0.50		1		11/23/20 13:24	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		11/23/20 13:24	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		11/23/20 13:24	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		11/23/20 13:24	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		11/23/20 13:24	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		11/23/20 13:24	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		11/23/20 13:24	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		11/23/20 13:24	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	88	%	70-130		1		11/23/20 13:24	2199-69-1	
4-Bromofluorobenzene (S)	79	%	70-130		1		11/23/20 13:24	460-00-4	

537.1 PFAS Compounds, Water

Analytical Method: EPA 537.1 Preparation Method: EPA 537.1

Pace Analytical Services - Ormond Beach

Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	11/23/20 10:06	11/25/20 15:37	375-73-5	
Perfluoroheptanoic acid	6.2	ng/L	1.9		1	11/23/20 10:06	11/25/20 15:37	375-85-9	
Perfluorohexanesulfonic acid	6.5	ng/L	1.9		1	11/23/20 10:06	11/25/20 15:37	355-46-4	
Perfluorononanoic acid	<1.9	ng/L	1.9		1	11/23/20 10:06	11/25/20 15:37	375-95-1	
Perfluorooctanesulfonic acid	6.2	ng/L	1.9	10	1	11/23/20 10:06	11/25/20 15:37	1763-23-1	
Perfluorooctanoic acid	18.2	ng/L	1.9	10	1	11/23/20 10:06	11/25/20 15:37	335-67-1	
Surrogates									
13C2-PFDA (S)	110	%	70-130		1	11/23/20 10:06	11/25/20 15:37		
13C2-PFHxA (S)	108	%	70-130		1	11/23/20 10:06	11/25/20 15:37		
HFPO-DAS (S)	94	%	70-130		1	11/23/20 10:06	11/25/20 15:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WELL 4 11/17

Pace Project No.: 70153789

Sample: N-03185		Lab ID: 70153789001		Collected: 11/17/20 09:15		Received: 11/17/20 15:00		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	3.8	mg/L	0.25		5		11/18/20 00:17	14797-55-8	
Nitrate-Nitrite (as N)	3.8	mg/L	0.25		5		11/18/20 00:17	7727-37-9	
353.2 Nitrogen, NO2		Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<0.050	mg/L	0.050		1		11/17/20 22:14	14797-65-0	

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QUALITY CONTROL DATA

Project: WELL 4 11/17

Pace Project No.: 70153789

QC Batch: 186318

Analysis Method: SM22 9223B Colilert

QC Batch Method: SM22 9223B Colilert

Analysis Description: TotColDW MBIO Total Coliform

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70153789001

METHOD BLANK: 912673

Matrix: Drinking Water

Associated Lab Samples: 70153789001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
E.coli		Absent		11/18/20 12:35	
Total Coliforms		Absent		11/18/20 12:35	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WELL 4 11/17

Pace Project No.: 70153789

QC Batch: 186872

Analysis Method: EPA 524.2

QC Batch Method: EPA 524.2

Analysis Description: 524.2 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70153789001

METHOD BLANK: 916339

Matrix: Water

Associated Lab Samples: 70153789001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	11/23/20 07:35	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	11/23/20 07:35	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	11/23/20 07:35	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	11/23/20 07:35	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	11/23/20 07:35	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	11/23/20 07:35	
1,1-Dichloroethene	ug/L	<0.50	0.50	11/23/20 07:35	
1,1-Dichloropropene	ug/L	<0.50	0.50	11/23/20 07:35	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	11/23/20 07:35	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	11/23/20 07:35	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	11/23/20 07:35	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	11/23/20 07:35	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	11/23/20 07:35	
1,2-Dichloroethane	ug/L	<0.50	0.50	11/23/20 07:35	
1,2-Dichloropropane	ug/L	<0.50	0.50	11/23/20 07:35	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	11/23/20 07:35	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	11/23/20 07:35	
1,3-Dichloropropane	ug/L	<0.50	0.50	11/23/20 07:35	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	11/23/20 07:35	
2,2-Dichloropropane	ug/L	<0.50	0.50	11/23/20 07:35	
2-Chlorotoluene	ug/L	<0.50	0.50	11/23/20 07:35	
4-Chlorotoluene	ug/L	<0.50	0.50	11/23/20 07:35	
Benzene	ug/L	<0.50	0.50	11/23/20 07:35	
Bromobenzene	ug/L	<0.50	0.50	11/23/20 07:35	
Bromochloromethane	ug/L	<0.50	0.50	11/23/20 07:35	
Bromodichloromethane	ug/L	<0.50	0.50	11/23/20 07:35	
Bromoform	ug/L	<0.50	0.50	11/23/20 07:35	
Bromomethane	ug/L	<0.50	0.50	11/23/20 07:35	
Carbon tetrachloride	ug/L	<0.50	0.50	11/23/20 07:35	
Chlorobenzene	ug/L	<0.50	0.50	11/23/20 07:35	
Chlorodifluoromethane	ug/L	<0.50	0.50	11/23/20 07:35	N3
Chloroethane	ug/L	<0.50	0.50	11/23/20 07:35	
Chloroform	ug/L	<0.50	0.50	11/23/20 07:35	
Chloromethane	ug/L	<0.50	0.50	11/23/20 07:35	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	11/23/20 07:35	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	11/23/20 07:35	
Dibromochloromethane	ug/L	<0.50	0.50	11/23/20 07:35	
Dibromomethane	ug/L	<0.50	0.50	11/23/20 07:35	
Dichlorodifluoromethane	ug/L	<0.50	0.50	11/23/20 07:35	
Ethylbenzene	ug/L	<0.50	0.50	11/23/20 07:35	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WELL 4 11/17

Pace Project No.: 70153789

METHOD BLANK: 916339

Matrix: Water

Associated Lab Samples: 70153789001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	11/23/20 07:35	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	11/23/20 07:35	
m&p-Xylene	ug/L	<0.50	0.50	11/23/20 07:35	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	11/23/20 07:35	
Methylene Chloride	ug/L	<0.50	0.50	11/23/20 07:35	
n-Butylbenzene	ug/L	<0.50	0.50	11/23/20 07:35	
n-Propylbenzene	ug/L	<0.50	0.50	11/23/20 07:35	
o-Xylene	ug/L	<0.50	0.50	11/23/20 07:35	
p-Isopropyltoluene	ug/L	<0.50	0.50	11/23/20 07:35	
sec-Butylbenzene	ug/L	<0.50	0.50	11/23/20 07:35	
Styrene	ug/L	<0.50	0.50	11/23/20 07:35	
tert-Butylbenzene	ug/L	<0.50	0.50	11/23/20 07:35	
Tetrachloroethene	ug/L	<0.50	0.50	11/23/20 07:35	
Toluene	ug/L	<0.50	0.50	11/23/20 07:35	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	11/23/20 07:35	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	11/23/20 07:35	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	11/23/20 07:35	
Trichloroethene	ug/L	<0.50	0.50	11/23/20 07:35	
Trichlorofluoromethane	ug/L	<0.50	0.50	11/23/20 07:35	
Vinyl chloride	ug/L	<0.50	0.50	11/23/20 07:35	
1,2-Dichlorobenzene-d4 (S)	%	89	70-130	11/23/20 07:35	
4-Bromofluorobenzene (S)	%	85	70-130	11/23/20 07:35	

LABORATORY CONTROL SAMPLE: 916340

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.2	92	70-130	
1,1,1-Trichloroethane	ug/L	10	10.6	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	9.3	93	70-130	
1,1,2-Trichloroethane	ug/L	10	8.5	85	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	10.7	107	70-130	N3
1,1-Dichloroethane	ug/L	10	8.6	86	70-130	
1,1-Dichloroethene	ug/L	10	9.8	98	70-130	
1,1-Dichloropropene	ug/L	10	9.2	92	70-130	
1,2,3-Trichlorobenzene	ug/L	10	9.1	91	70-130	
1,2,3-Trichloropropane	ug/L	10	10.4	104	70-130	
1,2,4-Trichlorobenzene	ug/L	10	9.0	90	70-130	
1,2,4-Trimethylbenzene	ug/L	10	10.1	101	70-130	
1,2-Dichlorobenzene	ug/L	10	9.9	99	70-130	
1,2-Dichloroethane	ug/L	10	10.1	101	70-130	
1,2-Dichloropropane	ug/L	10	8.3	83	70-130	
1,3,5-Trimethylbenzene	ug/L	10	10	100	70-130	
1,3-Dichlorobenzene	ug/L	10	10.4	104	70-130	
1,3-Dichloropropane	ug/L	10	9.4	94	70-130	

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QUALITY CONTROL DATA

Project: WELL 4 11/17

Pace Project No.: 70153789

LABORATORY CONTROL SAMPLE: 916340

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	10	10.3	103	70-130	
2,2-Dichloropropane	ug/L	10	10.3	103	70-130	
2-Chlorotoluene	ug/L	10	9.2	92	70-130	
4-Chlorotoluene	ug/L	10	10.0	100	70-130	
Benzene	ug/L	10	8.6	86	70-130	
Bromobenzene	ug/L	10	10.2	102	70-130	
Bromochloromethane	ug/L	10	9.9	99	70-130	
Bromodichloromethane	ug/L	10	8.9	89	70-130	
Bromoform	ug/L	10	9.1	91	70-130	
Bromomethane	ug/L	10	9.6	96	70-130	
Carbon tetrachloride	ug/L	10	10.5	105	70-130	
Chlorobenzene	ug/L	10	9.5	95	70-130	
Chlorodifluoromethane	ug/L	10	10.2	102	70-130	N3
Chloroethane	ug/L	10	7.8	78	70-130	
Chloroform	ug/L	10	9.8	98	70-130	
Chloromethane	ug/L	10	6.2	62	70-130	L2
cis-1,2-Dichloroethene	ug/L	10	9.6	96	70-130	
cis-1,3-Dichloropropene	ug/L	10	8.9	89	70-130	
Dibromochloromethane	ug/L	10	9.3	93	70-130	
Dibromomethane	ug/L	10	8.9	89	70-130	
Dichlorodifluoromethane	ug/L	10	6.7	67	70-130	L2
Ethylbenzene	ug/L	10	9.6	96	70-130	
Hexachloro-1,3-butadiene	ug/L	10	10.7	107	70-130	
Isopropylbenzene (Cumene)	ug/L	10	10.1	101	70-130	
m&p-Xylene	ug/L	20	20.5	102	70-130	
Methyl-tert-butyl ether	ug/L	10	9.7	97	70-130	IH
Methylene Chloride	ug/L	10	8.8	88	70-130	
n-Butylbenzene	ug/L	10	9.4	94	70-130	
n-Propylbenzene	ug/L	10	10.1	101	70-130	
o-Xylene	ug/L	10	9.6	96	70-130	
p-Isopropyltoluene	ug/L	10	10.4	104	70-130	
sec-Butylbenzene	ug/L	10	10.2	102	70-130	
Styrene	ug/L	10	10.0	100	70-130	
tert-Butylbenzene	ug/L	10	10.2	102	70-130	
Tetrachloroethene	ug/L	10	10	100	70-130	
Toluene	ug/L	10	9.3	93	70-130	
Total Trihalomethanes (Calc.)	ug/L		37.1			
trans-1,2-Dichloroethene	ug/L	10	8.9	89	70-130	
trans-1,3-Dichloropropene	ug/L	10	8.9	89	70-130	
Trichloroethene	ug/L	10	9.6	96	70-130	
Trichlorofluoromethane	ug/L	10	12.5	125	70-130	IH,v1
Vinyl chloride	ug/L	10	7.8	78	70-130	
1,2-Dichlorobenzene-d4 (S)	%			112	70-130	
4-Bromofluorobenzene (S)	%			110	70-130	

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QUALITY CONTROL DATA

Project: WELL 4 11/17

Pace Project No.: 70153789

SAMPLE DUPLICATE: 917487

Parameter	Units	70153789001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50		20	
1,1,1-Trichloroethane	ug/L	<0.50	<0.50		20	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50		20	
1,1,2-Trichloroethane	ug/L	<0.50	<0.50		20	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	<0.50		20	N3
1,1-Dichloroethane	ug/L	<0.50	<0.50		20	
1,1-Dichloroethene	ug/L	0.52	<0.50		20	
1,1-Dichloropropene	ug/L	<0.50	<0.50		20	
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50		20	
1,2,3-Trichloropropane	ug/L	<0.50	<0.50		20	
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50		20	
1,2,4-Trimethylbenzene	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene	ug/L	<0.50	<0.50		20	
1,2-Dichloroethane	ug/L	<0.50	<0.50		20	
1,2-Dichloropropane	ug/L	<0.50	<0.50		20	
1,3,5-Trimethylbenzene	ug/L	<0.50	<0.50		20	
1,3-Dichlorobenzene	ug/L	<0.50	<0.50		20	
1,3-Dichloropropane	ug/L	<0.50	<0.50		20	
1,4-Dichlorobenzene	ug/L	<0.50	<0.50		20	
2,2-Dichloropropane	ug/L	<0.50	<0.50		20	
2-Chlorotoluene	ug/L	<0.50	<0.50		20	
4-Chlorotoluene	ug/L	<0.50	<0.50		20	
Benzene	ug/L	<0.50	<0.50		20	
Bromobenzene	ug/L	<0.50	<0.50		20	
Bromochloromethane	ug/L	<0.50	<0.50		20	
Bromodichloromethane	ug/L	<0.50	<0.50		20	
Bromoform	ug/L	<0.50	<0.50		20	
Bromomethane	ug/L	<0.50	<0.50		20	
Carbon tetrachloride	ug/L	<0.50	<0.50		20	
Chlorobenzene	ug/L	<0.50	<0.50		20	
Chlorodifluoromethane	ug/L	<0.50	<0.50		20	N3
Chloroethane	ug/L	<0.50	<0.50		20	
Chloroform	ug/L	<0.50	<0.50		20	
Chloromethane	ug/L	<0.50	<0.50		20	
cis-1,2-Dichloroethene	ug/L	<0.50	<0.50		20	
cis-1,3-Dichloropropene	ug/L	<0.50	<0.50		20	
Dibromochloromethane	ug/L	<0.50	<0.50		20	
Dibromomethane	ug/L	<0.50	<0.50		20	
Dichlorodifluoromethane	ug/L	<0.50	<0.50		20	
Ethylbenzene	ug/L	<0.50	<0.50		20	
Hexachloro-1,3-butadiene	ug/L	<0.50	<0.50		20	
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50		20	
m&p-Xylene	ug/L	<0.50	<0.50		20	
Methyl-tert-butyl ether	ug/L	<0.50	<0.50		20	
Methylene Chloride	ug/L	<0.50	<0.50		20	
n-Butylbenzene	ug/L	<0.50	<0.50		20	
n-Propylbenzene	ug/L	<0.50	<0.50		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WELL 4 11/17

Pace Project No.: 70153789

SAMPLE DUPLICATE: 917487

Parameter	Units	70153789001 Result	Dup Result	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	<0.50	<0.50		20	
p-Isopropyltoluene	ug/L	<0.50	<0.50		20	
sec-Butylbenzene	ug/L	<0.50	<0.50		20	
Styrene	ug/L	<0.50	<0.50		20	
tert-Butylbenzene	ug/L	<0.50	<0.50		20	
Tetrachloroethene	ug/L	7.4	7.5	2	20	
Toluene	ug/L	<0.50	<0.50		20	
Total Trihalomethanes (Calc.)	ug/L	<0.50	<0.50		20	
trans-1,2-Dichloroethene	ug/L	<0.50	<0.50		20	
trans-1,3-Dichloropropene	ug/L	<0.50	<0.50		20	
Trichloroethene	ug/L	8.4	8.1	4	20	
Trichlorofluoromethane	ug/L	<0.50	<0.50		20	
Vinyl chloride	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene-d4 (S)	%	88	86		20	
4-Bromofluorobenzene (S)	%	79	88		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WELL 4 11/17

Pace Project No.: 70153789

QC Batch: 186869

QC Batch Method: EPA 522

Analysis Method: EPA 522

Analysis Description: 522 MSS 1,4 Dioxane

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70153789001

METHOD BLANK: 916331

Matrix: Drinking Water

Associated Lab Samples: 70153789001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	11/23/20 21:06	
1,4-Dioxane-d8 (S)	%	96	70-130	11/23/20 21:06	

LABORATORY CONTROL SAMPLE: 916332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.9	93	70-130	
1,4-Dioxane-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 916333

Parameter	Units	70153785001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.12	2	2.0	93	70-130	
1,4-Dioxane-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 916334

Parameter	Units	70153785002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.13	0.14	8	20	
1,4-Dioxane-d8 (S)	%	96	94		20	

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QUALITY CONTROL DATA

Project: WELL 4 11/17

Pace Project No.: 70153789

QC Batch: 684045

QC Batch Method: EPA 537.1

Analysis Method: EPA 537.1

Analysis Description: 537.1 PFOA Compounds, Water

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70153789001

METHOD BLANK: 3724649

Matrix: Water

Associated Lab Samples: 70153789001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	11/25/20 13:43	
Perfluoroheptanoic acid	ng/L	ND	2.0	11/25/20 13:43	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	11/25/20 13:43	
Perfluorononanoic acid	ng/L	ND	2.0	11/25/20 13:43	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	11/25/20 13:43	
Perfluorooctanoic acid	ng/L	ND	2.0	11/25/20 13:43	
13C2-PFDA (S)	%	106	70-130	11/25/20 13:43	
13C2-PFHxA (S)	%	105	70-130	11/25/20 13:43	
HFPO-DAS (S)	%	97	70-130	11/25/20 13:43	

LABORATORY CONTROL SAMPLE: 3724650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	160	129	81	70-130	
Perfluoroheptanoic acid	ng/L	160	158	99	70-130	
Perfluorohexanesulfonic acid	ng/L	160	139	87	70-130	
Perfluorononanoic acid	ng/L	160	157	98	70-130	
Perfluorooctanesulfonic acid	ng/L	160	137	85	70-130	
Perfluorooctanoic acid	ng/L	160	145	90	70-130	
13C2-PFDA (S)	%			106	70-130	
13C2-PFHxA (S)	%			103	70-130	
HFPO-DAS (S)	%			104	70-130	

LABORATORY CONTROL SAMPLE: 3724651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	1.6J	80	50-150	
Perfluoroheptanoic acid	ng/L	2	2.2	112	50-150	
Perfluorohexanesulfonic acid	ng/L	2	1.6J	82	50-150	
Perfluorononanoic acid	ng/L	2	2.2	110	50-150	
Perfluorooctanesulfonic acid	ng/L	2	1.6J	80	50-150	
Perfluorooctanoic acid	ng/L	2	ND	98	50-150	
13C2-PFDA (S)	%			110	70-130	
13C2-PFHxA (S)	%			108	70-130	
HFPO-DAS (S)	%			88	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WELL 4 11/17

Pace Project No.: 70153789

MATRIX SPIKE SAMPLE: 3724654		70153816001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	<1.9	7.6	6.2	81	70-130	
Perfluoroheptanoic acid	ng/L	<1.9	7.6	8.2	107	70-130	
Perfluorohexanesulfonic acid	ng/L	<1.9	7.6	6.7	87	70-130	
Perfluorononanoic acid	ng/L	<1.9	7.6	7.4	97	70-130	
Perfluorooctanesulfonic acid	ng/L	<1.9	7.6	6.3	82	70-130	
Perfluorooctanoic acid	ng/L	<1.9	7.6	6.7	86	70-130	
13C2-PFDA (S)	%				103	70-130	
13C2-PFHxA (S)	%				104	70-130	
HFPO-DAS (S)	%				89	70-130	

SAMPLE DUPLICATE: 3724655

		70154177001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	ND		30	
Perfluoroheptanoic acid	ng/L	ND	ND		30	
Perfluorohexanesulfonic acid	ng/L	ND	ND		30	
Perfluorononanoic acid	ng/L	ND	ND		30	
Perfluorooctanesulfonic acid	ng/L	ND	ND		30	
Perfluorooctanoic acid	ng/L	ND	ND		30	
13C2-PFDA (S)	%	115	108			
13C2-PFHxA (S)	%	121	113			
HFPO-DAS (S)	%	95	101			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WELL 4 11/17

Pace Project No.: 70153789

QC Batch: 186212

QC Batch Method: EPA 353.2

Analysis Method: EPA 353.2

Analysis Description: 353.2 Nitrite, Unpres.

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70153789001

METHOD BLANK: 912395

Matrix: Water

Associated Lab Samples: 70153789001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.050	11/17/20 22:12	

LABORATORY CONTROL SAMPLE: 912396

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

MATRIX SPIKE SAMPLE: 912397

Parameter	Units	70153789001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.53	105	90-110	

SAMPLE DUPLICATE: 912398

Parameter	Units	70153789001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WELL 4 11/17

Pace Project No.: 70153789

QC Batch:	186215	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70153789001

METHOD BLANK: 912411 Matrix: Water

Associated Lab Samples: 70153789001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.050	11/18/20 00:11	

LABORATORY CONTROL SAMPLE: 912412

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

MATRIX SPIKE SAMPLE: 912413

Parameter	Units	70153697001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.5	2.5	7.0	99	90-110	

MATRIX SPIKE SAMPLE: 912415

Parameter	Units	70153789001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	3.8	2.5	6.3	98	90-110	

SAMPLE DUPLICATE: 912414

Parameter	Units	70153697001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.5	4.5	0	20	

SAMPLE DUPLICATE: 912416

Parameter	Units	70153789001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	3.8	3.8	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WELL 4 11/17

Pace Project No.: 70153789

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WELL 4 11/17

Pace Project No.: 70153789

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70153789001	N-03185	SM22 9223B Colilert	186318	SM22 9223B Colilert	186378
70153789001	N-03185	EPA 522	186869	EPA 522	186996
70153789001	N-03185	EPA 524.2	186872		
70153789001	N-03185	EPA 537.1	684045	EPA 537.1	685035
70153789001	N-03185	EPA 353.2	186215		
70153789001	N-03185	EPA 353.2	186212		

REPORT OF LABORATORY ANALYSIS

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WO#: 70153789



70153789

Client Info:
Name or Address: VILLAGE OF MINEOLA

Address: WATER DEPARTMENT

Phone #: 42 EAST SECOND STREET

Attn: MINEOLA, NY 11501

Proj. # or (Name):

Bill To:

Copies To:

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings pH/Temp Cl ₂	Analysis	Lab No.
11-17-20 9:15am	GW	Well 4 Raw	RW	O	RO	5.9/14.2 5.9/14.2	Raw - Pfos (537	N-03195
11-17-20 9:16am	GW	Well 4 Raw	RW	O	RO	5.9/14.2	Raw - 1-4 Dioxane	N-03195
11-17-20 9:17am	GW	Well 4 Raw	RW	O	RO	5.9/14.2	Raw POC	N-03195
11-17-20 9:17am	GW	Well 4 Raw	RW	O	RO	5.9/14.2	Bac	N-03195
11-17-20 14:20	GW	Well 4 Raw	RW	O	RO	5.9/14.2	Nitrate	N-03195

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 11-17-2020

Collected By: N. M. Sandy

Accepted By: [Signature] 11/17/20

Cooler Temp: 10.6 °C 14/25

☐ WELL RUN TO SYSTEM

☒ YES ☐ NO VOC'S PRESERVED WITH HCl

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	- Other
S - Soil		I - Influent	
		E - Effluent	

Return to Lab
11/17/20 1500

☒ WELL OFF LINE



Sample Condition Upon Rec

WO#: 70153789

PM: SWM

CLIENT: MWD

Due Date: 12/01/20

Client Name:

Proje

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

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ NoPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: -0.2

Cooler Temperature (°C):

Cooler Temperature Corrected (°C):

Temp should be above freezing to 6.0°C

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

Date and Initials of person examining contents:

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 ☐ NODid samples originate from a foreign source (internationally, 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 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:	☒ Yes	☐ No		12.	
-Includes date/time/ID/Analysis Matrix SL WT OIL					
All containers needing preservation have been checked	☒ Yes	☐ No	☐ N/A	13.	☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #					
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☐ N/A	Sample #	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed:	Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☐ N/A	14.	
KI starch test strips Lot #					
Residual chlorine strips Lot #					Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☒ No	☐ N/A	15.	
Trip Blank Present:	☐ Yes	☒ No	☐ N/A	16.	
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.

F-LI-C-002-rev.02

December 29, 2020

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

RE: Project: 1,4 DIOX/ PFOA/NO3/POC 12/8
Pace Project No.: 70155949

Dear James Martin:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,



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

Enclosures

cc: Allen Fok, D & B Engineers
James Van Horn, D&B Engineers
Kevin Law, D & B Engineers
Bill Merklin, D & B Engineers



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Arizona Certification# AZ0819

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maryland Certification: #346

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70155949001	N-03185	Drinking Water	12/08/20 10:50	12/08/20 15:34
70155949002	N-03185	Drinking Water	12/08/20 10:50	12/08/20 15:34
70155949003	N-03185 FB	Drinking Water	12/08/20 10:54	12/08/20 15:34
70155949004	N-03185	Drinking Water	12/08/20 10:45	12/08/20 15:34

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SAMPLE ANALYTE COUNT

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70155949001	N-03185	EPA 522	TJD	2	PACE-MV
70155949002	N-03185	EPA 537.1	SWR	9	PASI-O
70155949003	N-03185 FB	EPA 537.1	SWR	9	PASI-O
70155949004	N-03185	EPA 524.2	KGG	57	PACE-MV
		EPA 524.2	CMH	8	PASI-O
		EPA 353.2	PGL	2	PACE-MV
		EPA 353.2	PGL	1	PACE-MV

PACE-MV = Pace Analytical Services - Melville

PASI-O = Pace Analytical Services - Ormond Beach

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ANALYTICAL RESULTS

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

Sample: N-03185		Lab ID: 70155949001		Collected: 12/08/20 10:50	Received: 12/08/20 15:34	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane (SIM)									
Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Melville									
1,4-Dioxane (p-Dioxane)	0.50	ug/L	0.020		1	12/11/20 10:00	12/11/20 19:29	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	12/11/20 10:00	12/11/20 19:29		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

Sample: N-03185 **Lab ID:** 70155949002 **Collected:** 12/08/20 10:50 **Received:** 12/08/20 15:34 **Matrix:** Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Pace Analytical Services - Ormond Beach									
Perfluorobutanesulfonic acid	<2.0	ng/L	2.0		1	12/12/20 00:00	12/20/20 17:42	375-73-5	
Perfluoroheptanoic acid	6.1	ng/L	2.0		1	12/12/20 00:00	12/20/20 17:42	375-85-9	
Perfluorohexanesulfonic acid	7.1	ng/L	2.0		1	12/12/20 00:00	12/20/20 17:42	355-46-4	
Perfluorononanoic acid	<2.0	ng/L	2.0		1	12/12/20 00:00	12/20/20 17:42	375-95-1	
Perfluorooctanesulfonic acid	6.4	ng/L	2.0	10	1	12/12/20 00:00	12/20/20 17:42	1763-23-1	1j
Perfluorooctanoic acid	23.8	ng/L	2.0	10	1	12/12/20 00:00	12/20/20 17:42	335-67-1	1j
Surrogates									
13C2-PFDA (S)	99	%	70-130		1	12/12/20 00:00	12/20/20 17:42		
13C2-PFHxA (S)	94	%	70-130		1	12/12/20 00:00	12/20/20 17:42		
HFPO-DAS (S)	83	%	70-130		1	12/12/20 00:00	12/20/20 17:42		

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ANALYTICAL RESULTS

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

Sample: N-03185 FB		Lab ID: 70155949003		Collected: 12/08/20 10:54		Received: 12/08/20 15:34		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1 Preparation Method: EPA 537.1 Pace Analytical Services - Ormond Beach							
Perfluorobutanesulfonic acid	<1.9	ng/L	1.9		1	12/12/20 01:08	12/16/20 06:56	375-73-5	1j
Perfluoroheptanoic acid	<1.9	ng/L	1.9		1	12/12/20 01:08	12/16/20 06:56	375-85-9	1j, L1
Perfluorohexanesulfonic acid	<1.9	ng/L	1.9		1	12/12/20 01:08	12/16/20 06:56	355-46-4	1j
Perfluorononanoic acid	<1.9	ng/L	1.9		1	12/12/20 01:08	12/16/20 06:56	375-95-1	1j, L1
Perfluorooctanesulfonic acid	<1.9	ng/L	1.9	10	1	12/12/20 01:08	12/16/20 06:56	1763-23-1	1j
Perfluorooctanoic acid	<1.9	ng/L	1.9	10	1	12/12/20 01:08	12/16/20 06:56	335-67-1	1j
Surrogates									
13C2-PFDA (S)	124	%	70-130		1	12/12/20 01:08	12/16/20 06:56		
13C2-PFHxA (S)	126	%	70-130		1	12/12/20 01:08	12/16/20 06:56		
HFPO-DAS (S)	95	%	70-130		1	12/12/20 01:08	12/16/20 06:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

Sample: N-03185 **Lab ID: 70155949004** Collected: 12/08/20 10:45 Received: 12/08/20 15:34 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
Benzene	<0.50	ug/L	0.50		1		12/20/20 20:57	71-43-2	
Bromobenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50		1		12/20/20 20:57	74-97-5	
Bromomethane	<0.50	ug/L	0.50		1		12/20/20 20:57	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50		1		12/20/20 20:57	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	108-90-7	
Chlorodifluoromethane	<0.50	ug/L	0.50		1		12/20/20 20:57	75-45-6	IL,N3
Chloroethane	<0.50	ug/L	0.50		1		12/20/20 20:57	75-00-3	
Chloromethane	<0.50	ug/L	0.50		1		12/20/20 20:57	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50		1		12/20/20 20:57	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50		1		12/20/20 20:57	106-43-4	
Dibromomethane	<0.50	ug/L	0.50		1		12/20/20 20:57	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50		1		12/20/20 20:57	75-71-8	
1,1-Dichloroethane	<0.50	ug/L	0.50		1		12/20/20 20:57	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50		1		12/20/20 20:57	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50		1		12/20/20 20:57	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50		1		12/20/20 20:57	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50		1		12/20/20 20:57	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50		1		12/20/20 20:57	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50		1		12/20/20 20:57	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50		1		12/20/20 20:57	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50		1		12/20/20 20:57	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50		1		12/20/20 20:57	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50		1		12/20/20 20:57	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50		1		12/20/20 20:57	87-68-3	L2
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50		1		12/20/20 20:57	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50		1		12/20/20 20:57	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50		1		12/20/20 20:57	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50		1		12/20/20 20:57	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	103-65-1	
Styrene	<0.50	ug/L	0.50		1		12/20/20 20:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50		1		12/20/20 20:57	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50		1		12/20/20 20:57	79-34-5	
Tetrachloroethene	6.4	ug/L	0.50		1		12/20/20 20:57	127-18-4	
Toluene	<0.50	ug/L	0.50		1		12/20/20 20:57	108-88-3	
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50		1		12/20/20 20:57	71-55-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

Sample: N-03185		Lab ID: 70155949004		Collected: 12/08/20 10:45		Received: 12/08/20 15:34		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV									
Analytical Method: EPA 524.2									
Pace Analytical Services - Melville									
1,1,2-Trichloroethane	<0.50	ug/L	0.50		1		12/20/20 20:57	79-00-5	
Trichloroethene	6.3	ug/L	0.50		1		12/20/20 20:57	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50		1		12/20/20 20:57	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50		1		12/20/20 20:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.50	ug/L	0.50		1		12/20/20 20:57	76-13-1	N3
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50		1		12/20/20 20:57	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50		1		12/20/20 20:57	75-01-4	
m&p-Xylene	<0.50	ug/L	0.50		1		12/20/20 20:57	179601-23-1	
o-Xylene	<0.50	ug/L	0.50		1		12/20/20 20:57	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		12/20/20 20:57	2199-69-1	
4-Bromofluorobenzene (S)	112	%	70-130		1		12/20/20 20:57	460-00-4	
524.2 THM									
Analytical Method: EPA 524.2									
Pace Analytical Services - Ormond Beach									
Bromodichloromethane	<1.0	ug/L	1.0		1		12/17/20 16:56	75-27-4	
Bromoform	<1.0	ug/L	1.0		1		12/17/20 16:56	75-25-2	
Chloroform	<1.0	ug/L	1.0		1		12/17/20 16:56	67-66-3	
Dibromochloromethane	<1.0	ug/L	1.0		1		12/17/20 16:56	124-48-1	
Total Trihalomethanes (Calc.)	<1.0	ug/L	1.0	80	1		12/17/20 16:56		
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		12/17/20 16:56	460-00-4	
Toluene-d8 (S)	104	%	70-130		1		12/17/20 16:56	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		12/17/20 16:56	2199-69-1	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Pace Analytical Services - Melville									
Nitrate as N	3.9	mg/L	0.25		5		12/08/20 22:28	14797-55-8	
Nitrate-Nitrite (as N)	3.9	mg/L	0.25		5		12/08/20 22:28	7727-37-9	
353.2 Nitrogen, NO2									
Analytical Method: EPA 353.2									
Pace Analytical Services - Melville									
Nitrite as N	<0.050	mg/L	0.050		1		12/08/20 20:47	14797-65-0	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8
Pace Project No.: 70155949

QC Batch:	190260	Analysis Method:	EPA 524.2
QC Batch Method:	EPA 524.2	Analysis Description:	524.2 MSV
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70155949004

METHOD BLANK: 933687 Matrix: Water

Associated Lab Samples: 70155949004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	12/20/20 12:09	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	12/20/20 12:09	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	12/20/20 12:09	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	12/20/20 12:09	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.50	0.50	12/20/20 12:09	N3
1,1-Dichloroethane	ug/L	<0.50	0.50	12/20/20 12:09	
1,1-Dichloroethene	ug/L	<0.50	0.50	12/20/20 12:09	
1,1-Dichloropropene	ug/L	<0.50	0.50	12/20/20 12:09	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	12/20/20 12:09	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	12/20/20 12:09	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	12/20/20 12:09	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	12/20/20 12:09	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	12/20/20 12:09	
1,2-Dichloroethane	ug/L	<0.50	0.50	12/20/20 12:09	
1,2-Dichloropropane	ug/L	<0.50	0.50	12/20/20 12:09	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	12/20/20 12:09	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	12/20/20 12:09	
1,3-Dichloropropane	ug/L	<0.50	0.50	12/20/20 12:09	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	12/20/20 12:09	
2,2-Dichloropropane	ug/L	<0.50	0.50	12/20/20 12:09	
2-Chlorotoluene	ug/L	<0.50	0.50	12/20/20 12:09	
4-Chlorotoluene	ug/L	<0.50	0.50	12/20/20 12:09	
Benzene	ug/L	<0.50	0.50	12/20/20 12:09	
Bromobenzene	ug/L	<0.50	0.50	12/20/20 12:09	
Bromochloromethane	ug/L	<0.50	0.50	12/20/20 12:09	
Bromomethane	ug/L	<0.50	0.50	12/20/20 12:09	
Carbon tetrachloride	ug/L	<0.50	0.50	12/20/20 12:09	
Chlorobenzene	ug/L	<0.50	0.50	12/20/20 12:09	
Chlorodifluoromethane	ug/L	<0.50	0.50	12/20/20 12:09	IL,N3
Chloroethane	ug/L	<0.50	0.50	12/20/20 12:09	
Chloromethane	ug/L	<0.50	0.50	12/20/20 12:09	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	12/20/20 12:09	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	12/20/20 12:09	
Dibromomethane	ug/L	<0.50	0.50	12/20/20 12:09	
Dichlorodifluoromethane	ug/L	<0.50	0.50	12/20/20 12:09	
Ethylbenzene	ug/L	<0.50	0.50	12/20/20 12:09	
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	12/20/20 12:09	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	12/20/20 12:09	
m&p-Xylene	ug/L	<0.50	0.50	12/20/20 12:09	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	12/20/20 12:09	

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

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QUALITY CONTROL DATA

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

METHOD BLANK: 933687

Matrix: Water

Associated Lab Samples: 70155949004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methylene Chloride	ug/L	<0.50	0.50	12/20/20 12:09	
n-Butylbenzene	ug/L	<0.50	0.50	12/20/20 12:09	
n-Propylbenzene	ug/L	<0.50	0.50	12/20/20 12:09	
o-Xylene	ug/L	<0.50	0.50	12/20/20 12:09	
p-Isopropyltoluene	ug/L	<0.50	0.50	12/20/20 12:09	
sec-Butylbenzene	ug/L	<0.50	0.50	12/20/20 12:09	
Styrene	ug/L	<0.50	0.50	12/20/20 12:09	
tert-Butylbenzene	ug/L	<0.50	0.50	12/20/20 12:09	
Tetrachloroethene	ug/L	<0.50	0.50	12/20/20 12:09	
Toluene	ug/L	<0.50	0.50	12/20/20 12:09	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	12/20/20 12:09	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	12/20/20 12:09	
Trichloroethene	ug/L	<0.50	0.50	12/20/20 12:09	
Trichlorofluoromethane	ug/L	<0.50	0.50	12/20/20 12:09	
Vinyl chloride	ug/L	<0.50	0.50	12/20/20 12:09	
1,2-Dichlorobenzene-d4 (S)	%	106	70-130	12/20/20 12:09	
4-Bromofluorobenzene (S)	%	114	70-130	12/20/20 12:09	

LABORATORY CONTROL SAMPLE: 933688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.7	97	70-130	
1,1,1-Trichloroethane	ug/L	10	9.7	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	8.3	83	70-130	
1,1,2-Trichloroethane	ug/L	10	9.0	90	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	10	10.3	103	70-130	N3
1,1-Dichloroethane	ug/L	10	8.9	89	70-130	
1,1-Dichloroethene	ug/L	10	9.2	92	70-130	
1,1-Dichloropropene	ug/L	10	9.3	93	70-130	
1,2,3-Trichlorobenzene	ug/L	10	8.3	83	70-130	
1,2,3-Trichloropropane	ug/L	10	9.0	90	70-130	
1,2,4-Trichlorobenzene	ug/L	10	8.3	83	70-130	
1,2,4-Trimethylbenzene	ug/L	10	9.8	98	70-130	
1,2-Dichlorobenzene	ug/L	10	8.7	87	70-130	
1,2-Dichloroethane	ug/L	10	9.0	90	70-130	
1,2-Dichloropropane	ug/L	10	8.7	87	70-130	
1,3,5-Trimethylbenzene	ug/L	10	10	100	70-130	
1,3-Dichlorobenzene	ug/L	10	8.6	86	70-130	
1,3-Dichloropropane	ug/L	10	8.7	87	70-130	
1,4-Dichlorobenzene	ug/L	10	8.6	86	70-130	
2,2-Dichloropropane	ug/L	10	9.3	93	70-130	
2-Chlorotoluene	ug/L	10	9.8	98	70-130	
4-Chlorotoluene	ug/L	10	9.4	94	70-130	
Benzene	ug/L	10	9.5	95	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

LABORATORY CONTROL SAMPLE: 933688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/L	10	8.4	84	70-130	
Bromochloromethane	ug/L	10	9.2	92	70-130	
Bromomethane	ug/L	10	9.6	96	70-130	
Carbon tetrachloride	ug/L	10	10.6	106	70-130	
Chlorobenzene	ug/L	10	9.6	96	70-130	
Chlorodifluoromethane	ug/L	10	11.0	110	70-130	IL,N3
Chloroethane	ug/L	10	9.5	95	70-130	
Chloromethane	ug/L	10	9.2	92	70-130	
cis-1,2-Dichloroethene	ug/L	10	8.8	88	70-130	
cis-1,3-Dichloropropene	ug/L	10	9.2	92	70-130	
Dibromomethane	ug/L	10	8.5	85	70-130	
Dichlorodifluoromethane	ug/L	10	7.6	76	70-130	
Ethylbenzene	ug/L	10	9.2	92	70-130	
Hexachloro-1,3-butadiene	ug/L	10	6.7	67	70-130	L2
Isopropylbenzene (Cumene)	ug/L	10	9.7	97	70-130	
m&p-Xylene	ug/L	20	18.0	90	70-130	
Methyl-tert-butyl ether	ug/L	10	9.2	92	70-130	
Methylene Chloride	ug/L	10	9.4	94	70-130	
n-Butylbenzene	ug/L	10	10.5	105	70-130	
n-Propylbenzene	ug/L	10	9.6	96	70-130	
o-Xylene	ug/L	10	9.6	96	70-130	
p-Isopropyltoluene	ug/L	10	9.8	98	70-130	
sec-Butylbenzene	ug/L	10	9.8	98	70-130	
Styrene	ug/L	10	9.3	93	70-130	
tert-Butylbenzene	ug/L	10	9.5	95	70-130	
Tetrachloroethene	ug/L	10	8.9	89	70-130	
Toluene	ug/L	10	9.9	99	70-130	
trans-1,2-Dichloroethene	ug/L	10	9.0	90	70-130	
trans-1,3-Dichloropropene	ug/L	10	8.4	84	70-130	
Trichloroethene	ug/L	10	9.5	95	70-130	
Trichlorofluoromethane	ug/L	10	12.9	129	70-130	
Vinyl chloride	ug/L	10	9.5	95	70-130	
1,2-Dichlorobenzene-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	

SAMPLE DUPLICATE: 933764

Parameter	Units	70156249003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50		20	
1,1,1-Trichloroethane	ug/L	<0.50	<0.50		20	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50		20	
1,1,2-Trichloroethane	ug/L	<0.50	<0.50		20	
1,1,2-Trichlorotrifluoroethane	ug/L	2.4	1.8	27	20	D6,N3
1,1-Dichloroethane	ug/L	<0.50	<0.50		20	
1,1-Dichloroethene	ug/L	<0.50	<0.50		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

SAMPLE DUPLICATE: 933764

Parameter	Units	70156249003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloropropene	ug/L	<0.50	<0.50		20	
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50		20	
1,2,3-Trichloropropane	ug/L	<0.50	<0.50		20	
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50		20	
1,2,4-Trimethylbenzene	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene	ug/L	<0.50	<0.50		20	
1,2-Dichloroethane	ug/L	<0.50	<0.50		20	
1,2-Dichloropropane	ug/L	<0.50	<0.50		20	
1,3,5-Trimethylbenzene	ug/L	<0.50	<0.50		20	
1,3-Dichlorobenzene	ug/L	<0.50	<0.50		20	
1,3-Dichloropropane	ug/L	<0.50	<0.50		20	
1,4-Dichlorobenzene	ug/L	<0.50	<0.50		20	
2,2-Dichloropropane	ug/L	<0.50	<0.50		20	
2-Chlorotoluene	ug/L	<0.50	<0.50		20	
4-Chlorotoluene	ug/L	<0.50	<0.50		20	
Benzene	ug/L	<0.50	<0.50		20	
Bromobenzene	ug/L	<0.50	<0.50		20	
Bromochloromethane	ug/L	<0.50	<0.50		20	
Bromomethane	ug/L	<0.50	<0.50		20	
Carbon tetrachloride	ug/L	<0.50	<0.50		20	
Chlorobenzene	ug/L	<0.50	<0.50		20	
Chlorodifluoromethane	ug/L	<0.50	<0.50		20	IL,N3
Chloroethane	ug/L	<0.50	<0.50		20	
Chloromethane	ug/L	<0.50	<0.50		20	
cis-1,2-Dichloroethene	ug/L	23.3	20.9	11	20	
cis-1,3-Dichloropropene	ug/L	<0.50	<0.50		20	
Dibromomethane	ug/L	<0.50	<0.50		20	
Dichlorodifluoromethane	ug/L	<0.50	<0.50		20	
Ethylbenzene	ug/L	<0.50	<0.50		20	
Hexachloro-1,3-butadiene	ug/L	<0.50	<0.50		20	
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50		20	
m&p-Xylene	ug/L	<0.50	<0.50		20	
Methyl-tert-butyl ether	ug/L	<0.50	<0.50		20	
Methylene Chloride	ug/L	<0.50	<0.50		20	
n-Butylbenzene	ug/L	<0.50	<0.50		20	
n-Propylbenzene	ug/L	<0.50	<0.50		20	
o-Xylene	ug/L	<0.50	<0.50		20	
p-Isopropyltoluene	ug/L	<0.50	<0.50		20	
sec-Butylbenzene	ug/L	<0.50	<0.50		20	
Styrene	ug/L	<0.50	<0.50		20	
tert-Butylbenzene	ug/L	<0.50	<0.50		20	
Tetrachloroethene	ug/L	5.6	4.6	20	20	
Toluene	ug/L	<0.50	<0.50		20	
trans-1,2-Dichloroethene	ug/L	<0.50	<0.50		20	
trans-1,3-Dichloropropene	ug/L	<0.50	<0.50		20	
Trichloroethene	ug/L	15.8	13.6	15	20	
Trichlorofluoromethane	ug/L	0.63	0.59	6	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

SAMPLE DUPLICATE: 933764

Parameter	Units	70156249003 Result	Dup Result	RPD	Max RPD	Qualifiers
Vinyl chloride	ug/L	<0.50	<0.50		20	
1,2-Dichlorobenzene-d4 (S)	%	106	102		20	
4-Bromofluorobenzene (S)	%	112	110		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8
Pace Project No.: 70155949

QC Batch: 690531	Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2	Analysis Description: 524.2 THM MSV
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70155949004

METHOD BLANK: 3760567 Matrix: Water
Associated Lab Samples: 70155949004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromodichloromethane	ug/L	<1.0	1.0	12/17/20 14:16	
Bromoform	ug/L	<1.0	1.0	12/17/20 14:16	
Chloroform	ug/L	<1.0	1.0	12/17/20 14:16	
Dibromochloromethane	ug/L	<1.0	1.0	12/17/20 14:16	
Total Trihalomethanes (Calc.)	ug/L	<1.0	1.0	12/17/20 14:16	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	12/17/20 14:16	
4-Bromofluorobenzene (S)	%	105	70-130	12/17/20 14:16	
Toluene-d8 (S)	%	98	70-130	12/17/20 14:16	

LABORATORY CONTROL SAMPLE & LCSD: 3760568

LABORATORY CONTROL SAMPLE & LCSD: 3760568			3760569							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	20	18.7	19.7	94	99	70-130	5	20	
Bromoform	ug/L	20	18.3	18.6	91	93	70-130	2	20	
Chloroform	ug/L	20	19.8	20.3	99	102	70-130	3	20	
Dibromochloromethane	ug/L	20	18.4	19.1	92	95	70-130	4	20	
Total Trihalomethanes (Calc.)	ug/L	80	75.2	77.8	94	97	70-130	3	20	
1,2-Dichlorobenzene-d4 (S)	%				101	101	70-130			
4-Bromofluorobenzene (S)	%				103	99	70-130			
Toluene-d8 (S)	%				101	102	70-130			

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QUALITY CONTROL DATA

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

QC Batch:	189190	Analysis Method:	EPA 522
QC Batch Method:	EPA 522	Analysis Description:	522 MSS 1,4 Dioxane
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70155949001

METHOD BLANK: 928348 Matrix: Drinking Water

Associated Lab Samples: 70155949001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.020	0.020	12/11/20 16:13	
1,4-Dioxane-d8 (S)	%	87	70-130	12/11/20 16:13	

LABORATORY CONTROL SAMPLE: 928349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.02	<0.020	79	70-130	
1,4-Dioxane-d8 (S)	%			88	70-130	

MATRIX SPIKE SAMPLE: 928350

Parameter	Units	70155883001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.36	0.02	0.39	136	70-130	M1
1,4-Dioxane-d8 (S)	%				90	70-130	

SAMPLE DUPLICATE: 928351

Parameter	Units	70155951001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.42	0.40	7	20	
1,4-Dioxane-d8 (S)	%	92	92		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

QC Batch: 688955

Analysis Method: EPA 537.1

QC Batch Method: EPA 537.1

Analysis Description: 537.1 PFOA Compounds, Water

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70155949002, 70155949003

METHOD BLANK: 3752744

Matrix: Water

Associated Lab Samples: 70155949002, 70155949003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ng/L	ND	2.0	12/16/20 04:04	
Perfluoroheptanoic acid	ng/L	ND	2.0	12/16/20 04:04	
Perfluorohexanesulfonic acid	ng/L	ND	2.0	12/16/20 04:04	
Perfluorononanoic acid	ng/L	ND	2.0	12/16/20 04:04	
Perfluorooctanesulfonic acid	ng/L	ND	2.0	12/16/20 04:04	
Perfluorooctanoic acid	ng/L	ND	2.0	12/16/20 04:04	
13C2-PFDA (S)	%	144	70-130	12/16/20 04:04	S3
13C2-PFHxA (S)	%	147	70-130	12/16/20 04:04	S3
HFPO-DAS (S)	%	112	70-130	12/16/20 04:04	
NETFOSAA-d5 (S)	%	106	70-130	12/16/20 04:04	

LABORATORY CONTROL SAMPLE: 3752745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	8	5.8	72	70-130	
Perfluoroheptanoic acid	ng/L	8	13.6	170	70-130	L1
Perfluorohexanesulfonic acid	ng/L	8	6.7	84	70-130	
Perfluorononanoic acid	ng/L	8	11.0	138	70-130	L1
Perfluorooctanesulfonic acid	ng/L	8	6.6	82	70-130	
Perfluorooctanoic acid	ng/L	8	7.6	94	70-130	
13C2-PFDA (S)	%			157	70-130	S0
13C2-PFHxA (S)	%			161	70-130	S0
HFPO-DAS (S)	%			129	70-130	
NETFOSAA-d5 (S)	%			111	70-130	

LABORATORY CONTROL SAMPLE: 3752746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	2	1.5J	74	50-150	
Perfluoroheptanoic acid	ng/L	2	3.4	170	50-150	L1
Perfluorohexanesulfonic acid	ng/L	2	1.6J	80	50-150	
Perfluorononanoic acid	ng/L	2	2.9	146	50-150	
Perfluorooctanesulfonic acid	ng/L	2	1.5J	76	50-150	
Perfluorooctanoic acid	ng/L	2	2.0	100	50-150	
13C2-PFDA (S)	%			158	70-130	S0
13C2-PFHxA (S)	%			160	70-130	S0
HFPO-DAS (S)	%			119	70-130	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

LABORATORY CONTROL SAMPLE: 3752746

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

MATRIX SPIKE SAMPLE: 3752747

Parameter	Units	35598054001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ng/L	0.0096 ug/L	7.3	14.9	74	70-130	
Perfluoroheptanoic acid	ng/L	0.046 ug/L	7.3	56.0	135	70-130	M0
Perfluorohexanesulfonic acid	ng/L	0.0051 ug/L	7.3	10.7	76	70-130	
Perfluorononanoic acid	ng/L	0.0032 ug/L	7.3	13.2	137	70-130	M1
Perfluorooctanesulfonic acid	ng/L	0.024 ug/L	7.3	31.0	92	70-130	
Perfluorooctanoic acid	ng/L	0.035 ug/L	7.3	41.2	80	70-130	
13C2-PFDA (S)	%				143	70-130	S0
13C2-PFHxA (S)	%				115	70-130	
HFPO-DAS (S)	%				90	70-130	
NETFOSAA-d5 (S)	%				92	70-130	

SAMPLE DUPLICATE: 3752748

Parameter	Units	35598054002 Result	Dup Result	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ng/L	0.0045 ug/L	4.2	5	30	
Perfluoroheptanoic acid	ng/L	0.023 ug/L	22.3	5	30	
Perfluorohexanesulfonic acid	ng/L	ND	<1.8		30	
Perfluorononanoic acid	ng/L	ND	<1.8		30	
Perfluorooctanesulfonic acid	ng/L	0.0093 ug/L	8.7	7	30	
Perfluorooctanoic acid	ng/L	0.018 ug/L	16.9	4	30	
13C2-PFDA (S)	%	141	125			
13C2-PFHxA (S)	%	129	122			
HFPO-DAS (S)	%	101	96			
NETFOSAA-d5 (S)	%	94	84			

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QUALITY CONTROL DATA

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

QC Batch: 188738

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrite, Unpres.

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70155949004

METHOD BLANK: 926373

Matrix: Water

Associated Lab Samples: 70155949004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.050	12/08/20 20:13	

LABORATORY CONTROL SAMPLE: 926374

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

MATRIX SPIKE SAMPLE: 926375

Parameter	Units	70155947001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.54	107	90-110	

MATRIX SPIKE SAMPLE: 926377

Parameter	Units	70155881001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.54	106	90-110	

SAMPLE DUPLICATE: 926376

Parameter	Units	70155947001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 926378

Parameter	Units	70155881001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

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QUALITY CONTROL DATA

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8
Pace Project No.: 70155949

QC Batch:	188742	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate, Unpres.
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70155949004

METHOD BLANK: 926482 Matrix: Water

Associated Lab Samples: 70155949004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.050	12/08/20 22:15	

LABORATORY CONTROL SAMPLE: 926483

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

MATRIX SPIKE SAMPLE: 926484

Parameter	Units	70155881001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	5.9	2.5	8.4	97	90-110	

MATRIX SPIKE SAMPLE: 926486

Parameter	Units	70155892001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.5	2.5	6.9	99	90-110	

SAMPLE DUPLICATE: 926485

Parameter	Units	70155881001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	5.9	5.8	2	20	

SAMPLE DUPLICATE: 926487

Parameter	Units	70155892001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	4.5	4.4	0	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8
Pace Project No.: 70155949

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 70155949001

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

BATCH QUALIFIERS

Batch: 689331

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

Batch: 691140

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

ANALYTE QUALIFIERS

1j A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
IL This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALIFIERS

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

ANALYTE QUALIFIERS

- | | |
|----|---|
| N3 | Accreditation is not offered by the relevant laboratory accrediting body for this parameter. |
| S0 | Surrogate recovery outside laboratory control limits. |
| S3 | Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1,4 DIOX/ PFOA/NO3/POC 12/8

Pace Project No.: 70155949

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70155949001	N-03185	EPA 522	189190	EPA 522	189297
70155949004	N-03185	EPA 524.2	190260		
70155949004	N-03185	EPA 524.2	690531		
70155949002	N-03185	EPA 537.1	688955	EPA 537.1	691140
70155949003	N-03185 FB	EPA 537.1	688955	EPA 537.1	689331
70155949004	N-03185	EPA 353.2	188742		
70155949004	N-03185	EPA 353.2	188738		

REPORT OF LABORATORY ANALYSIS

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WO#: 70155949



70155949

747

Sample Request Form PUBLIC WATER SUPPLIER

Del. by: *Shirley* 15:34 12/18/20

☒ WELL OFF LINE

☐ WELL RUN TO SYSTEM

Date: 12-8-2020

Collected By: *Shirley*

Accepted By: *Shirley* 12:38 12/18/20

Cooler Temp: 4.7 °C

Client Info:

Name or Code: Village of
Address: Mineola
42 E. 2nd Street
Phone #: 746-0751
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 pH/Temp	Analysis	Lab No.
10:50	GW	Well #4 Raw	RW		RO	5.9 / 14.4C	Raw 1-4 Diotane	N-03185
10:50	GW	Well #4 Raw	RW		RO	5.9 / 14.4C PLOS 537		N-03185
10:54	GW	Well #4 RW	RW		RO		Field Blank	N-03185
10:45	GW	Well #4 Raw	RW		RO	5.9 / 14.4C Nitrate / POC		N-03185
Remarks: <u>monthly well samples to waste</u>								



Sample Condition Upon Receipt

WO#: 70155949

PM: JSA

Due Date: 12/15/20

CLIENT: MWD

Client Name:

Village of Mineda

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

Tracking #:

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals intact: ☒ Yes ☐ NoPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other

Thermometer Used: TH091

Correction Factor: -0.2

Cooler Temperature(°C): 4.7

Cooler Temperature Corrected(°C): 4.5

Temperature Blank Present: ☐ Yes ☒ NoType of Ice: ☒ Wet ☐ Blue ☐ None☒ Samples on ice, cooling process has begunDate/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: 12/8/20 EU

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ NoDid samples originate from a foreign source including Hawaii and Puerto Rico? ☐ Yes ☒ No

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

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

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution: