Water Authority of Western Nassau County

July 7, 2022

New York State Department of Health
Empire State Plaza
Corning Tower
Albany, New York 12237

Re: Deferral Update PFOA, PFOS, 1,4 – dioxane

Dear Sirs:

This letter with attachment represents the second quarter 2022 Capital Project updates for wells which received deferral from MCL violations regarding PFOA, PFOS, and 1,4-dioxane. The Water Authority of Western Nassau County ("Water Authority") continues to aggressively install new wellhead treatment systems to bring all wells into compliance with the regulation that became effective on August 26, 2020.

In that regard, the Water Authority successfully issued $62 million of new Series 2021 Green Revenue Bonds on June 15, 2021 which secured sufficient funding to see all capital projects through to completion. These project updates will be posted on our website.

Sincerely,

Michael J. Tierney
Superintendent

1580 Union Turnpike, New Hyde Park, NY 11040-1762
(516) 327-4100 • Fax (516) 327-4132
www.wawnc.org

Water Authority of Western Nassau County

Station 20, Well 20
Evergreen Avenue, New Hyde Park, N.Y.

Update: July 7, 2022	
Status:	In Service May 14, 2021
NYS Allowable levels:	1,4 – dioxane (1 part per billion) PFOS (10 parts per trillion) PFOA (10 parts per trillion)
Most Recent Raw Water Test Results: (Samples Collected on June 16, 2022)	1,4 – dioxane (.420 part per billion) PFOS (9.9 parts per trillion) PFOA (11.4 parts per trillion)
Most Recent Treated Water Test Results: (Samples Collected on June 16, 2022)	PFOS (<1.8 parts per trillion) PFOA (<1.8 parts per trillion)
Construction Project for the Installation of Granular Activated Carbon ("GAC") vessels to remove PFOS/PFOA.	
Phase 1 Construction Project Chronological Progress:	
May 2020 Pilot Study Performed August 2020 Pilot Study Report Sent to NYS Department of Health ("NYSDOH") October 2020 Full Site Engineering Report Complete and Sent to NYSDOH November 2020 Project Plans and Specifications Complete and sent to NYSDOH December 2020 Construction Start Date with Estimated Completion Date of April 2021 March 15, 2021 GAC Vessels Arrived May 2021 Well Startup and Completed Works Approval	
Regulatory Approvals Dates	Pilot Study Report April 2021 Full Engineering Report April 2021 Approval of Overall Project May 13, 2021 TOWN DPW Drainage Approval April 29, 2021

	County DPW Drainage Approval March 29, 2021
Phase 1 Current Status	
All water assets are now installed and in-service effective May 14, 2021. On July 3, 2021 the booster motor failed and the well is temporarily out of service. Emergency protocol was taken to replace the motor. The motor has been replaced and Station is back in service.	
Phase 2 Construction Project Permanent Building and Site Work Chronological Progress:	
January 2021 Design of Permanent GAC Building March 2021 Bid Date July 1, 2021 Construction Start Date. The project experienced a 2 month delay on building construction resulting from PSEG breaker installation. Construction scaffolding was within 10 feet of overhead power lines. Other contractor delays occurred from labor impact from pandemic and supplies availability. On June 28th the contractor submitted substantial completion letter and is addressing punch list items.	
Phase 3 Construction Project Installation of AOP Treatment, Replacement of Elevated Storage Tank and Site Rehabilitation	
Estimated Date of Engineering Report June 2023 Project Start Date May 2024 Estimated Completion Date December 2026	

Station 28, Well 28
Miriam Parkway, Elmont, N.Y.

Update: July 7, 2022	
Status:	May 20, 2022 In Service
NYS Allowable levels:	1,4 – dioxane (1 part per billion) PFOS (10 parts per trillion) PFOA (10 parts per trillion)
Most Recent Raw Water Test Results: (Samples collected on June 14, 2022)	1,4 – dioxane (ND parts per billion) PFOS (4.3 parts per trillion) PFOA (14.2 parts per trillion)
Most Recent Treated Water Test Results: (Samples collected on June 14, 2022)	PFOS (<1.9 parts per trillion) PFOA (<1.9 parts per trillion)
Construction Project for the Installation of Granular Activated Carbon ("GAC") vessels to remove PFOS/PFOA.	
Phase 1 Construction Project Chronological Progress:	
November 2019 Full Site Engineering Report Complete and Sent to NYSDOH November 2019 Project Plans and Specifications Complete and sent to NYSDOH December 2019 Construction Start Date with Estimated Completion Date of May 2020 June 2020 Well Startup and Completed Works Approval	
Regulatory Approvals Dates	Full Engineering Report March 2020 Approval of Overall Project June 2020
Phase 2 Construction Project Temporary Fabric Enclosures:	
January 2021 Enclosure Installation Started February 2021 Enclosure Installation Complete	
Phase 3 Construction of Permanent Building around GAC Vessels	
Permanent building installation to take place beginning January 2024	

**** Well 28 running to system through new treatment. Water quality is in compliance with all NYSDOH Standards.

Station 35, Well 35A
Cisney Avenue, Floral Park, N.Y.

Update: July 7, 2022	
Status:	June 2021 In Service
NYS Allowable levels:	1,4 – dioxane (1 part per billion) PFOS (10 parts per trillion) PFOA (10 parts per trillion)
Most Recent Raw Water Test Results: (Samples collected June 16, 2022)	1,4 – dioxane (.680 parts per billion) PFOS (5.9 parts per trillion) PFOA (8.9 parts per trillion)
Most Recent Treated Water Test Results: (Samples collected June 16, 2022)	1,4 – dioxane (<.020 parts per billion) PFOS (<1.8 parts per trillion) PFOA (<1.8 parts per trillion)
Construction Project for the Installation of Granular Activated Carbon ("GAC") vessels to remove PFOS/PFOA and installation of Ultraviolet Advanced Oxidation Process ("AOP") to remove 1,4 – dioxane.	
Phase 1 Construction Project Chronological Progress:	
April 2020 Pilot Study Performed August 2020 Pilot Study Report Sent to NYS Department of Health ("NYSDOH") October 2020 Full Site Engineering Report Complete and Sent to NYSDOH December 2020 Project Plans and Specifications Complete and sent to NYSDOH January 2021 Construction Start Date with Estimated Completion Date of August 2021 GAC Vessels Arrived April 26, 2021 AOP Enclosure Arrived March 4, 2021 AOP Reactor Arrived April 13, 2021 Completed Works Approval January 20, 2022 Well Startup March 2, 2022	
Regulatory Approvals Dates	Pilot Study Report March 2021 Full Engineering Report NCDOH April 2021

	NYSDOH Approval of Overall Project August 30, 2021
Phase 1 Current Status	
Phase 1 is complete and all wellhead treatment systems are operating according to design	
Phase 2 Construction Project Permanent GAC Building and Site Work Chronological Progress:	
April 2021 Design of Permanent GAC Building	
April 26, 2021 Was Bid Opening for Permanent GAC Building	
Substantial Project completion date is June 15, 2022, punch list items remaining.	
Phase 3 Construction Project Demolition of Existing Well House to Raise Wells and Site Rehabilitation Work:	
Project will start in 2024 following the installation of all Water Authority wellhead treatment for emerging contaminants for all Water Authority impacted wells.	
Note: Well 35 at this site is out of service due to high levels of iron.	

Station 40, Wells 40 & 40A (Headquarters Site)
Union Turnpike, New Hyde Park, N.Y.

July 7, 2022	
Status:	June 2021 In Service
NYS Allowable levels:	1,4 – dioxane (1 part per billion) PFOS (10 parts per trillion) PFOA (10 parts per trillion)
Most Recent Raw Water Test Results:	
Well 40 (Samples collected June 16, 2022)	1,4 – dioxane (.580 parts per billion) PFOS (4.6 parts per trillion) PFOA (9.6 parts per trillion)
Well 40A (Samples collected June 16, 2022) Blended 40 / 40A	1,4 – dioxane (1.30 parts per billion) PFOS (6.3 parts per trillion) PFOA (10.2 parts per trillion) 1,4 dioxane (.790 parts per billion PFOS (4.9 parts per trillion) PFOA (9.6 parts per trillion)
Construction Project for the Installation of Granular Activated Carbon ("GAC") vessels to remove PFOS/PFOA and installation of Ultraviolet Advanced Oxidation Process ("AOP") to remove 1,4 – dioxane.	
Phase 1 Construction Project Chronological Progress:	
April 2020 Pilot Study Performed August 2020 Pilot Study Report Sent to NYS Department of Health ("NYSDOH")	
Regulatory Approvals Dates	Pilot Study Report March 2021 Full Engineering Report NCDOH April 2021 (Awaiting comments from NYSDOH) Approval of Overall Project December 2021 Blending Application Sent to NYSDOH and NCDOH on April 20, 2021. Approval of

	Blending application has been received on Sept. 29, 2021.

*Water Authority is awaiting NYSDOH comments on Pilot Study.

Available space for wellhead treatment at this site is an obstacle to preparing the full engineering report and to prepare project design and specifications. This site serves as the Water Authority headquarters location.

As of June 2022 the Water Authority has acquired both residential properties adjacent to Station 40 which are now vacant. A site survey for the entire footprint including these 2 new properties is complete and we are awaiting the results of the Hazardous materials inspection and soil borings. Phase 1 of this project will include demolition of these 2 newly acquired properties which is expected to take place October 2022. Design for installation of new GAC and AOP systems is underway.

The Water Authority has instructed the engineering firm of H2M Group to prepare a request for blending proposal of the two wells located at Station 40. This report was sent on April 20, 2021 and approval received from the NCDOH on Sept. 29, 2021. The Engineering Report is expected to be complete by January 2022 using the assumption that the adjacent property is acquired. DOH approval is expected several months following submission. Water currently produced is blended. Potential delays could occur toward the procurement of necessary treatment system assets. It is expected to take 3-4 months to obtain GAC vessels and 6-7 months to obtain an AOP reactor. Contractor labor issues continue to slow down all emerging contaminant projects as a result of many projects underway throughout the water industry.

Station 44, Wells 44, 44A, 44B, 44C
Chelsea Street, Elmont, N.Y.

Update: July 7, 2022	
Status:	June 2021 In Service
NYS Allowable levels:	1,4 – dioxane (1 part per billion) PFOS (10 parts per trillion) PFOA (10 parts per trillion)
Most Recent Raw Water Test Results:	
Well 44 (PFOS/PFOA Samples collected June 14, 2022) Quarterly 1, 4 – dioxane samples collected Apr. 5, 2022	1,4 – dioxane (.027 parts per billion) PFOS (4.9 parts per trillion) PFOA (13.3 parts per trillion)
Well 44A (PFOS/PFOA Samples collected June 14, 2022) Quarterly 1, 4 – dioxane samples collected Apr. 5, 2022	1,4 – dioxane (0.140 parts per billion) PFOS (7.2 parts per trillion) PFOA (5.4 parts per trillion)
Well 44B (PFOS/PFOA Samples collected June 14, 2022) Quarterly 1, 4 – dioxane samples collected Apr. 5, 2022	1,4 – dioxane (0.034 parts per billion) PFOS (7.0 parts per trillion) PFOA (18.2 parts per trillion)
Well 44C (PFOS/PFOA Samples collected June 14, 2022) Quarterly 1, 4 – dioxane samples collected Apr. 5, 2022	1,4 – dioxane (0.037 parts per billion) PFOS (2.8 parts per trillion) PFOA (7.0 parts per trillion)
Most Recent Treated Water Test Results:	
Well 44 / 44A (Samples collected June 14, 2022)	PFOS (<1.8 parts per trillion)

	PFOA (<1.8 parts per trillion)
Well 44B / 44C (Samples collected June 14, 2022)	PFOS (<1.8 parts per trillion) PFOA (<1.8 parts per trillion)
Construction Project for the Installation of Granular Activated Carbon ("GAC") vessels to remove PFOS/PFOA.	
Phase 1 Construction Project Chronological Progress:	
September 2019 Full Engineering report complete and sent to NYSDOH November 2019 Project design and specifications complete and sent to NYSDOH December 2019 Project Construction begins January 2020 Calgon Carbon column testing performed	
Actual Regulatory Approval Dates	Full Engineering Report March 2020 Design Approval April 2020 Approval of Overall Project in Service June 2020
Phase 2 Construction Project Temporary Fabric Vessel Enclosures:	
December 2020 Construction of Fabric tent enclosures around 2 sets of vessels January 2021 Tent Enclosures are Complete	
Phase 3 Construction Project Permanent Treatment Buildings, Raising Wells and full site Rehabilitation:	
Design and Specifications for Public Bidding is 100% complete and under review by Water Authority staff. September/October 2022 Construction starts Project length is estimated at 2 years	
****Wells 44, 44A, 44B and 44C running to system through new treatment. Water quality is in compliance with all NYSDOH Standards.	

Station 57, Wells 57, 57A
South 6th Street, New Hyde Park, N.Y.

Update: July 7, 2022	
Status:	Out of Service since October 15, 2020
NYS Allowable levels:	1,4 – dioxane (1 part per billion) PFOS (10 parts per trillion) PFOA (10 parts per trillion)
Most Recent Raw Water Test Results (last test October 2020):	
Well 57	1,4 – dioxane (14.5 parts per billion) PFOS (7.9 parts per trillion) PFOA (68.7 parts per trillion)
Well 57A	1,4 – dioxane (11.9 parts per billion) PFOS (4.8 parts per trillion) PFOA (61.9 parts per trillion)
Construction Project for the Installation of Granular Activated Carbon ("GAC") vessels to remove PFOS/PFOA and installation of Ultraviolet Advanced Oxidation Process ("AOP) to remove 1,4 – dioxane.	
Phase 1 Construction Project Chronological Progress of Full Site Rehabilitation:	
December 2016 Acquired property adjacent to this site September 2018 Pilot Study Performed March 2019 Pilot Study Report Sent to NYS Department of Health ("NYSDOH") June 2019 Full Engineering report complete and sent to NYSDOH January 2020 Project design and specifications complete and sent to NYSDOH October 2020 Project Construction begins with Estimated Completion Date of June 30, 2022	
Estimated Regulatory Approval Dates	Pilot Study Report July 2019 Full Engineering Report May 2020 Approval of Overall Project May 2022
This project includes a full site rehabilitation including demolition of all existing buildings, raising wells, new air stripper tower, new emergency generator, replacement of all water	

assets and appurtenances and new wellhead treatment for the removal of emerging contaminants.

Current Status

Project is coming to completion. Performance testing has been complete and are awaiting results. Clear well issues are being addressed and punch list items have been distributed to all contractors.

We expect completion of this project in July 2022 for Completed Works Approval and full project completion in August 2022.

Laboratory Results

Results for the samples and analytes requested

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

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

Pace
575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 06/16/2022 10:48 AM Point N-00017
Received : 06/17/2022 05:30 PM Location Well #20
Collected By PACE No NHP

Lab No. : 70218883001
Client Sample ID.: N-00017

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 06/28/2022 5:29 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.42		1	ug/L	1	06/29/2022 6:38 AM	001 AG2R1/1
Surr: 1,4-Dioxane-d8 (S)	109%		1	%REC		06/29/2022 6:38 AM	001 AG2R1/1

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 06/28/2022 12:03

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.9		1	ng/L		07/03/2022 2:01 AM	001 BP3T1/2
Perfluoroheptanoic acid	2.5		1	ng/L		07/03/2022 2:01 AM	001 BP3T1/2
Perfluorohexanesulfonic acid	2.9		1	ng/L		07/03/2022 2:01 AM	001 BP3T1/2
Perfluorononanoic acid	5.1		1	ng/L		07/03/2022 2:01 AM	001 BP3T1/2
Perfluorooctanesulfonic acid	9.9		1	ng/L	10	07/03/2022 2:01 AM	001 BP3T1/2
Perfluorooctanoic acid	**11.4***		1	ng/L	10	07/03/2022 2:01 AM	001 BP3T1/2
Surr: 13C2-PFDA (S)	101%		1	%REC		07/03/2022 2:01 AM	001 BP3T1/2
Surr: 13C2-PFHxA (S)	100%		1	%REC		07/03/2022 2:01 AM	001 BP3T1/2
Surr: HFPO-DAS (S)	92%		1	%REC		07/03/2022 2:01 AM	001 BP3T1/2

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

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

Date Reported: 07/06/2022

Kimberley Mack

Kimberley Mack

Test results meet the requirements of NELAC unless otherwise noted.

Laboratory Results

Results for the samples and analytes requested

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

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

Treatment
Air Stripper/GAC

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner

Lab No. : 70218883002
Client Sample ID.: AS/GAC-00017

Federal ID : 2902830
Collected : 06/16/2022 10:53 AM Point AS/GAC-00017
Received : 06/17/2022 05:30 PM Location Well 20
Collected By PACE

Analytical Method: EPA 537.1 Prep Method: EPA 537.1 Prep Date: 06/28/2022 12:03

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.8	P4	1	ng/L		07/03/2022 2:17 AM	002 BP3T1/2
Perfluoroheptanoic acid	<1.8	P4	1	ng/L		07/03/2022 2:17 AM	002 BP3T1/2
Perfluorohexanesulfonic acid	<1.8	P4	1	ng/L		07/03/2022 2:17 AM	002 BP3T1/2
Perfluorononanoic acid	<1.8	P4	1	ng/L		07/03/2022 2:17 AM	002 BP3T1/2
Perfluorooctanesulfonic acid	<1.8	P4	1	ng/L	10	07/03/2022 2:17 AM	002 BP3T1/2
Perfluorooctanoic acid	<1.8	P4	1	ng/L	10	07/03/2022 2:17 AM	002 BP3T1/2
Surr: 13C2-PFDA (S)	103%		1	%REC		07/03/2022 2:17 AM	002 BP3T1/2
Surr: 13C2-PFHxA (S)	99%		1	%REC		07/03/2022 2:17 AM	002 BP3T1/2
Surr: HFPO-DAS (S)	92%		1	%REC		07/03/2022 2:17 AM	002 BP3T1/2

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

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

Date Reported: 07/06/2022

Kimberley Mack

Kimberley Mack

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Laboratory Results

Results for the samples and analytes requested

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

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 06/14/2022 10:40 AM Point N-02414
Received : 06/14/2022 05:50 PM Location Well #28
Collected By PACE Elmont

Lab No. : 70218452003
Client Sample ID.: N-02414

Analytical Method: EPA 537.1 Prep Method: EPA 537.1 Prep Date: 06/23/2022 11:40

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	4.6		1	ng/L		06/30/2022 9:29 AM	003 BP3T1/2
Perfluoroheptanoic acid	4.0		1	ng/L		06/30/2022 9:29 AM	003 BP3T1/2
Perfluorohexanesulfonic acid	2.8		1	ng/L		06/30/2022 9:29 AM	003 BP3T1/2
Perfluorononanoic acid	4.3		1	ng/L		06/30/2022 9:29 AM	003 BP3T1/2
Perfluorooctanesulfonic acid	4.3		1	ng/L	10	06/30/2022 9:29 AM	003 BP3T1/2
Perfluorooctanoic acid	**14.2***		1	ng/L	10	06/30/2022 9:29 AM	003 BP3T1/2
Surr: 13C2-PFDA (S)	98%		1	%REC		06/30/2022 9:29 AM	003 BP3T1/2
Surr: 13C2-PFHxA (S)	96%		1	%REC		06/30/2022 9:29 AM	003 BP3T1/2
Surr: HFPO-DAS (S)	91%		1	%REC		06/30/2022 9:29 AM	003 BP3T1/2
Surr: NEtFOSAA-d5 (S)	90%		1	%REC		06/30/2022 9:29 AM	003 BP3T1/2

Qualifiers:
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ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
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Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 07/05/2022

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Laboratory Results

Results for the samples and analytes requested

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Pace
575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

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

Treatment
GAC

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 06/14/2022 10:36 AM Point GAC-02414
Received : 06/14/2022 05:50 PM Location Well #28
Collected By PACE

Lab No. : 70218452004
Client Sample ID.: GAC-02414

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 06/23/2022 11:40

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.9		1	ng/L		06/30/2022 10:01	004 BP3T1/2
Perfluoroheptanoic acid	<1.9		1	ng/L		06/30/2022 10:01	004 BP3T1/2
Perfluorohexanesulfonic acid	<1.9		1	ng/L		06/30/2022 10:01	004 BP3T1/2
Perfluorononanoic acid	<1.9		1	ng/L		06/30/2022 10:01	004 BP3T1/2
Perfluorooctanesulfonic acid	<1.9		1	ng/L	10	06/30/2022 10:01	004 BP3T1/2
Perfluorooctanoic acid	<1.9		1	ng/L	10	06/30/2022 10:01	004 BP3T1/2
Surr: 13C2-PFDA (S)	99%		1	%REC		06/30/2022 10:01	004 BP3T1/2
Surr: 13C2-PFHxA (S)	94%		1	%REC		06/30/2022 10:01	004 BP3T1/2
Surr: HFPO-DAS (S)	90%		1	%REC		06/30/2022 10:01	004 BP3T1/2

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

Date Reported: 07/05/2022

Jennifer Aracri

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Laboratory Results

Results for the samples and analytes requested

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 05/05/2022 11:05 AM Point N-04298
Received : 05/05/2022 03:40 PM Location Well #35A
Collected By PACE

Lab No. : 70213682001
Client Sample ID.: N-04298

Analytical Method:EPA 218.7

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Chromium, Hexavalent	<0.12	D3	5	ug/L		05/19/2022 4:18 PM	001 BP3R1/1

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 05/12/2022 10:04

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.62		1	ug/L	1	05/12/2022 5:12 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	98%		1	%REC		05/12/2022 5:12 PM	001 AG2R1/2

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 05/17/2022 12:03

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	2.7		1	ng/L		05/27/2022 10:22	001 BP3T1/2
Perfluoroheptanoic acid	3.7		1	ng/L		05/27/2022 10:22	001 BP3T1/2
Perfluorohexanesulfonic acid	4.4		1	ng/L		05/27/2022 10:22	001 BP3T1/2
Perfluorononanoic acid	3.9		1	ng/L		05/27/2022 10:22	001 BP3T1/2
Perfluorooctanesulfonic acid	6.2		1	ng/L	10	05/27/2022 10:22	001 BP3T1/2
Perfluorooctanoic acid	9.3		1	ng/L	10	05/27/2022 10:22	001 BP3T1/2
Surr: 13C2-PFDA (S)	90%		1	%REC		05/27/2022 10:22	001 BP3T1/2
Surr: 13C2-PFHxA (S)	91%		1	%REC		05/27/2022 10:22	001 BP3T1/2
Surr: HFPO-DAS (S)	89%		1	%REC		05/27/2022 10:22	001 BP3T1/2

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

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

Date Reported: 05/31/2022

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Laboratory Results

Results for the samples and analytes requested

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

Pace
575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

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

Treatment
AST/AOP

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner

Lab No. : 70213682003
Client Sample ID.: AOP/AS35/35A

Federal ID : 2902830
Collected : 05/05/2022 10:32 AM Point AOP/AS35/35A
Received : 05/05/2022 03:40 PM Location Well 35,35A AOP/AS
Collected By PACE

Analytical Method:EPA 218.7

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Chromium, Hexavalent	<0.12	D3	5	ug/L		05/19/2022 4:45 PM	003 BP3R1/1

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 05/12/2022 10:04

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	<0.020		1	ug/L	1	05/12/2022 5:46 PM	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	98%		1	%REC		05/12/2022 5:46 PM	003 AG2R1/2

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 05/17/2022 12:03

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.8		1	ng/L		05/27/2022 10:38	003 BP3T1/2
Perfluoroheptanoic acid	<1.8		1	ng/L		05/27/2022 10:38	003 BP3T1/2
Perfluorohexanesulfonic acid	<1.8		1	ng/L		05/27/2022 10:38	003 BP3T1/2
Perfluorononanoic acid	<1.8		1	ng/L		05/27/2022 10:38	003 BP3T1/2
Perfluorooctanesulfonic acid	<1.8		1	ng/L	10	05/27/2022 10:38	003 BP3T1/2
Perfluorooctanoic acid	<1.8		1	ng/L	10	05/27/2022 10:38	003 BP3T1/2
Surr: 13C2-PFDA (S)	82%		1	%REC		05/27/2022 10:38	003 BP3T1/2
Surr: 13C2-PFHxA (S)	82%		1	%REC		05/27/2022 10:38	003 BP3T1/2
Surr: HFPO-DAS (S)	80%		1	%REC		05/27/2022 10:38	003 BP3T1/2

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

Date Reported: 05/31/2022

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Laboratory Results

Results for the samples and analytes requested

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

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

Pace
575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 06/16/2022 10:00 AM Point N-04390
Received : 06/17/2022 05:30 PM Location Well #40
Collected By PACE No NHP

Lab No. : 70218883003
Client Sample ID.: N-04390

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 06/28/2022 5:29 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.58		1	ug/L	1	06/29/2022 6:56 AM	003 AG2R1/1
Surr: 1,4-Dioxane-d8 (S)	102%		1	%REC		06/29/2022 6:56 AM	003 AG2R1/1

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 06/28/2022 12:03

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.8		1	ng/L		07/03/2022 2:32 AM	003 BP3T1/2
Perfluoroheptanoic acid	2.9		1	ng/L		07/03/2022 2:32 AM	003 BP3T1/2
Perfluorohexanesulfonic acid	3.9		1	ng/L		07/03/2022 2:32 AM	003 BP3T1/2
Perfluorononanoic acid	<1.8		1	ng/L		07/03/2022 2:32 AM	003 BP3T1/2
Perfluorooctanesulfonic acid	4.6		1	ng/L	10	07/03/2022 2:32 AM	003 BP3T1/2
Perfluorooctanoic acid	9.6		1	ng/L	10	07/03/2022 2:32 AM	003 BP3T1/2
Surr: 13C2-PFDA (S)	102%		1	%REC		07/03/2022 2:32 AM	003 BP3T1/2
Surr: 13C2-PFHxA (S)	97%		1	%REC		07/03/2022 2:32 AM	003 BP3T1/2
Surr: HFPO-DAS (S)	89%		1	%REC		07/03/2022 2:32 AM	003 BP3T1/2

Qualifiers:
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ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
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Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 07/06/2022

Kimberley Mack

Kimberley Mack

Test results meet the requirements of NELAC unless otherwise noted.

Laboratory Results

Results for the samples and analytes requested

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

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

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 06/16/2022 10:13 AM
Received : 06/17/2022 05:30 PM
Collected By PACE

Lab No. : 70218883004
Client Sample ID.: N-07445
Point N-07445
Location Well #40A
No NHP

Analytical Method: EPA 522 | Prep Method: EPA 522 | Prep Date: 06/28/2022 5:29 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	**1.3***		1	ug/L	1	06/29/2022 7:13 AM	004 AG2R1/1
Surr: 1,4-Dioxane-d8 (S)	105%		1	%REC		06/29/2022 7:13 AM	004 AG2R1/1

Analytical Method: EPA 537.1 | Prep Method: EPA 537.1 | Prep Date: 06/28/2022 12:03

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.9		1	ng/L		07/03/2022 2:48 AM	004 BP3T1/2
Perfluoroheptanoic acid	2.0		1	ng/L		07/03/2022 2:48 AM	004 BP3T1/2
Perfluorohexanesulfonic acid	2.0		1	ng/L		07/03/2022 2:48 AM	004 BP3T1/2
Perfluorononanoic acid	2.5		1	ng/L		07/03/2022 2:48 AM	004 BP3T1/2
Perfluorooctanesulfonic acid	6.2		1	ng/L	10	07/03/2022 2:48 AM	004 BP3T1/2
Perfluorooctanoic acid	**10.2***		1	ng/L	10	07/03/2022 2:48 AM	004 BP3T1/2
Surr: 13C2-PFDA (S)	102%		1	%REC		07/03/2022 2:48 AM	004 BP3T1/2
Surr: 13C2-PFHxA (S)	96%		1	%REC		07/03/2022 2:48 AM	004 BP3T1/2
Surr: HFPO-DAS (S)	86%		1	%REC		07/03/2022 2:48 AM	004 BP3T1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
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Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 07/06/2022

Kimberley Mack

Kimberley Mack

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Laboratory Results

Results for the samples and analytes requested

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

Pace
575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

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

Treatment
Air Stripper

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 06/16/2022 10:21 AM Point AS-07445
Received : 06/17/2022 05:30 PM Location Well 40,40A
Collected By PACE

Lab No. : 70218883005
Client Sample ID.: AS-07445

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 06/28/2022 5:29 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.79		1	ug/L	1	06/29/2022 7:30 AM	005 AG2R1/1
Surr: 1,4-Dioxane-d8 (S)	96%		1	%REC		06/29/2022 7:30 AM	005 AG2R1/1

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 06/28/2022 12:03

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.8		1	ng/L		07/03/2022 3:20 AM	005 BP3T1/2
Perfluoroheptanoic acid	2.7		1	ng/L		07/03/2022 3:20 AM	005 BP3T1/2
Perfluorohexanesulfonic acid	3.4		1	ng/L		07/03/2022 3:20 AM	005 BP3T1/2
Perfluorononanoic acid	<1.8		1	ng/L		07/03/2022 3:20 AM	005 BP3T1/2
Perfluorooctanesulfonic acid	4.9		1	ng/L	10	07/03/2022 3:20 AM	005 BP3T1/2
Perfluorooctanoic acid	9.6		1	ng/L	10	07/03/2022 3:20 AM	005 BP3T1/2
Surr: 13C2-PFDA (S)	99%		1	%REC		07/03/2022 3:20 AM	005 BP3T1/2
Surr: 13C2-PFHxA (S)	97%		1	%REC		07/03/2022 3:20 AM	005 BP3T1/2
Surr: HFPO-DAS (S)	89%		1	%REC		07/03/2022 3:20 AM	005 BP3T1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
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Date Reported: 07/06/2022

Kimberley Mack

Kimberley Mack

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575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

WorkOrder :
70218883

Laboratory Certifications

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

WorkOrder :
70218883

Laboratory Certifications

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

Pace

CHAIN-OF-CUSTODY /

WO#: 70218883

70218883

The Chain-of-Custody is a LEGAL D

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms a ns.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Water Auth. of Western Nassau	Report To:	Joseph Corbisiero	Attention:	
Address:	1580 Union Tpke.	Copy To:		Company Name:	
New Hyde Park, NY 11040				Address:	Regulatory Agency
Email	jcorbisiero@wawnc.org	Purchase Order #:		Pace Quote:	
Phone	(516)327-4053 Fax	Project Name:	PFAS/1,4 Dioxane 6/16	Pace Project Manager:	jennifer.aracri@pacelabs.com, State / Location
Requested Due Date:		Project #:		Pace Profile #:	5131 NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: PFAS by 537	1,4 Dioxane	Residual Chlorine (Y/N)	
1	N-00017	DW				6/16/22	10:48												X	X		+Sodium Bisulfate
2	AS/GAC-00017	DW					10:53												X			
3	N-04390	DW					10:00												X	X		
4	N-07445	DW					10:13												X	X		
5	AS-07445	DW					10:21												X	X		
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		6/16/22	18:25				4.7	Y	Y	Y

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	EMRE UNVER	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	DATE Signed: 6/16/22				

Pace Analytical®

Sample Condition Upon Receipt

WO#: 70218883

PM: JSA Due Date: 06/30/22

CLIENT: WANN

Client Name: Water Auth. of Western Nas... Project

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

Tracking #:

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

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

Thermometer Used: TH091 TH188 Correction Factor: + 0.1

Cooler Temperature(°C): 4.7 Cooler Temperature Corrected(°C): 4.8

Temp should be above freezing to 6.0°C

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

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: 6/16/22 EU

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

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

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

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

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

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

ENV-FRM-MELV-0024 01

Laboratory Results

Results for the samples and analytes requested

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

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 04/05/2022 12:22 PM Point N-05155
Received : 04/05/2022 03:45 PM Location Well #44
Collected By PACE Elmont

Lab No. : 70209700006
Client Sample ID.: N-05155

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 04/07/2022 10:57

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.027		1	ug/L	1	04/08/2022 1:52 AM	006 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	106%		1	%REC		04/08/2022 1:52 AM	006 AG2R1/2

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 04/10/2022 1:28 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	4.6	P4	1	ng/L		04/12/2022 5:59 PM	006 BP3T1/2
Perfluoroheptanoic acid	4.3	P4	1	ng/L		04/12/2022 5:59 PM	006 BP3T1/2
Perfluorohexanesulfonic acid	3.3	P4	1	ng/L		04/12/2022 5:59 PM	006 BP3T1/2
Perfluorononanoic acid	<1.8	P4	1	ng/L		04/12/2022 5:59 PM	006 BP3T1/2
Perfluorooctanesulfonic acid	8.3	P4	1	ng/L	10	04/12/2022 5:59 PM	006 BP3T1/2
Perfluorooctanoic acid	**14.2***	P4	1	ng/L	10	04/12/2022 5:59 PM	006 BP3T1/2
Surr: 13C2-PFDA (S)	94%		1	%REC		04/12/2022 5:59 PM	006 BP3T1/2
Surr: 13C2-PFHxA (S)	91%		1	%REC		04/12/2022 5:59 PM	006 BP3T1/2
Surr: HFPO-DAS (S)	95%		1	%REC		04/12/2022 5:59 PM	006 BP3T1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
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Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 04/13/2022

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Laboratory Results

Results for the samples and analytes requested

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

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 04/05/2022 12:24 PM Point N-05156
Received : 04/05/2022 03:45 PM Location Well #44A
Collected By PACE Elmont

Lab No. : 70209700007
Client Sample ID.: N-05156

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 04/07/2022 10:57

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.14		1	ug/L	1	04/08/2022 2:09 AM	007 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	106%		1	%REC		04/08/2022 2:09 AM	007 AG2R1/2

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 04/10/2022 1:28 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.9	P4	1	ng/L		04/12/2022 6:15 PM	007 BP3T1/2
Perfluoroheptanoic acid	2.8	P4	1	ng/L		04/12/2022 6:15 PM	007 BP3T1/2
Perfluorohexanesulfonic acid	4.5	P4	1	ng/L		04/12/2022 6:15 PM	007 BP3T1/2
Perfluorononanoic acid	6.8	P4	1	ng/L		04/12/2022 6:15 PM	007 BP3T1/2
Perfluorooctanesulfonic acid	**17.9***	P4	1	ng/L	10	04/12/2022 6:15 PM	007 BP3T1/2
Perfluorooctanoic acid	6.5	P4	1	ng/L	10	04/12/2022 6:15 PM	007 BP3T1/2
Surr: 13C2-PFDA (S)	99%		1	%REC		04/12/2022 6:15 PM	007 BP3T1/2
Surr: 13C2-PFHxA (S)	91%		1	%REC		04/12/2022 6:15 PM	007 BP3T1/2
Surr: HFPO-DAS (S)	90%		1	%REC		04/12/2022 6:15 PM	007 BP3T1/2

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

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

Date Reported: 04/13/2022

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Laboratory Results

Results for the samples and analytes requested

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

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

Treatment
Air Stripper/GAC

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 04/05/2022 12:14 PM Point AS/GAC-44/44A
Received : 04/05/2022 03:45 PM Location Well 44,44A
Collected By PACE

Lab No. : 70209700008
Client Sample ID.: AS/GAC-44/44A

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 04/10/2022 1:28 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.8		1	ng/L		04/12/2022 6:30 PM	008 BP3T1/2
Perfluoroheptanoic acid	<1.8		1	ng/L		04/12/2022 6:30 PM	008 BP3T1/2
Perfluorohexanesulfonic acid	<1.8		1	ng/L		04/12/2022 6:30 PM	008 BP3T1/2
Perfluorononanoic acid	<1.8		1	ng/L		04/12/2022 6:30 PM	008 BP3T1/2
Perfluorooctanesulfonic acid	<1.8		1	ng/L	10	04/12/2022 6:30 PM	008 BP3T1/2
Perfluorooctanoic acid	<1.8		1	ng/L	10	04/12/2022 6:30 PM	008 BP3T1/2
Surr: 13C2-PFDA (S)	92%		1	%REC		04/12/2022 6:30 PM	008 BP3T1/2
Surr: 13C2-PFHxA (S)	88%		1	%REC		04/12/2022 6:30 PM	008 BP3T1/2
Surr: HFPO-DAS (S)	91%		1	%REC		04/12/2022 6:30 PM	008 BP3T1/2

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

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

Date Reported: 04/13/2022

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Laboratory Results

Results for the samples and analytes requested

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

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner

Lab No. : 70209700009
Client Sample ID.: N-06744

Federal ID : 2902830
Collected : 04/05/2022 12:48 PM Point N-06744
Received : 04/05/2022 03:45 PM Location Well #44B
Collected By PACE Elmont

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 04/07/2022 10:57

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.034		1	ug/L	1	04/08/2022 2:27 AM	009 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	106%		1	%REC		04/08/2022 2:27 AM	009 AG2R1/2

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 04/10/2022 1:28 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	6.6	P4	1	ng/L		04/12/2022 6:46 PM	009 BP3T1/2
Perfluoroheptanoic acid	5.8	P4	1	ng/L		04/12/2022 6:46 PM	009 BP3T1/2
Perfluorohexanesulfonic acid	4.8	P4	1	ng/L		04/12/2022 6:46 PM	009 BP3T1/2
Perfluorononanoic acid	<1.8	P4	1	ng/L		04/12/2022 6:46 PM	009 BP3T1/2
Perfluorooctanesulfonic acid	**11.8***	P4	1	ng/L	10	04/12/2022 6:46 PM	009 BP3T1/2
Perfluorooctanoic acid	**19.7***	P4	1	ng/L	10	04/12/2022 6:46 PM	009 BP3T1/2
Surr: 13C2-PFDA (S)	88%		1	%REC		04/12/2022 6:46 PM	009 BP3T1/2
Surr: 13C2-PFHxA (S)	89%		1	%REC		04/12/2022 6:46 PM	009 BP3T1/2
Surr: HFPO-DAS (S)	91%		1	%REC		04/12/2022 6:46 PM	009 BP3T1/2

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

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

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported: 04/13/2022

Laboratory Results

Results for the samples and analytes requested

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

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 04/05/2022 12:50 PM
Received : 04/05/2022 03:45 PM
Collected By PACE

Lab No. : 70209700010
Client Sample ID.: N-06745
Point N-06745
Location Well #44C
Elmont

Analytical Method:EPA 522 | Prep Method: EPA 522 | Prep Date: 04/07/2022 10:57

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.037		1	ug/L	1	04/08/2022 2:44 AM	010 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	105%		1	%REC		04/08/2022 2:44 AM	010 AG2R1/2

Analytical Method:EPA 537.1 | Prep Method: EPA 537.1 | Prep Date: 04/10/2022 1:28 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	4.9		1	ng/L		04/12/2022 7:02 PM	010 BP3T1/2
Perfluoroheptanoic acid	4.8		1	ng/L		04/12/2022 7:02 PM	010 BP3T1/2
Perfluorohexanesulfonic acid	4.0		1	ng/L		04/12/2022 7:02 PM	010 BP3T1/2
Perfluorononanoic acid	<1.9		1	ng/L		04/12/2022 7:02 PM	010 BP3T1/2
Perfluorooctanesulfonic acid	9.0		1	ng/L	10	04/12/2022 7:02 PM	010 BP3T1/2
Perfluorooctanoic acid	**15.2***		1	ng/L	10	04/12/2022 7:02 PM	010 BP3T1/2
Surr: 13C2-PFDA (S)	97%		1	%REC		04/12/2022 7:02 PM	010 BP3T1/2
Surr: 13C2-PFHxA (S)	91%		1	%REC		04/12/2022 7:02 PM	010 BP3T1/2
Surr: HFPO-DAS (S)	96%		1	%REC		04/12/2022 7:02 PM	010 BP3T1/2

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

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

Date Reported: 04/13/2022

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Laboratory Results

Results for the samples and analytes requested

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

Pace
575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

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

Treatment
Air Stripper/GAC

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 04/05/2022 12:42 PM Point AS/GAC-44B/44C
Received : 04/05/2022 03:45 PM Location Well 44B,44C
Collected By PACE

Lab No. : 70209700011
Client Sample ID.: AS/GAC-44B/44C

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 04/10/2022 1:28 PM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.8		1	ng/L		04/12/2022 8:05 PM	011 BP3T1/2
Perfluoroheptanoic acid	<1.8		1	ng/L		04/12/2022 8:05 PM	011 BP3T1/2
Perfluorohexanesulfonic acid	<1.8		1	ng/L		04/12/2022 8:05 PM	011 BP3T1/2
Perfluorononanoic acid	<1.8		1	ng/L		04/12/2022 8:05 PM	011 BP3T1/2
Perfluorooctanesulfonic acid	<1.8		1	ng/L	10	04/12/2022 8:05 PM	011 BP3T1/2
Perfluorooctanoic acid	<1.8		1	ng/L	10	04/12/2022 8:05 PM	011 BP3T1/2
Surr: 13C2-PFDA (S)	91%		1	%REC		04/12/2022 8:05 PM	011 BP3T1/2
Surr: 13C2-PFHxA (S)	90%		1	%REC		04/12/2022 8:05 PM	011 BP3T1/2
Surr: HFPO-DAS (S)	92%		1	%REC		04/12/2022 8:05 PM	011 BP3T1/2

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

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

Jennifer Aracri

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Date Reported: 04/13/2022

Laboratory Results

Results for the samples and analytes requested

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

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 06/14/2022 12:32 PM Point N-05155
Received : 06/14/2022 05:50 PM Location Well #44
Collected By PACE Elmont

Lab No. : 70218452005
Client Sample ID.: N-05155

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 06/23/2022 11:40

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	5.4		1	ng/L		06/30/2022 10:17	35726850005
Perfluoroheptanoic acid	4.9		1	ng/L		06/30/2022 10:17	35726850005
Perfluorohexanesulfonic acid	3.6		1	ng/L		06/30/2022 10:17	35726850005
Perfluorononanoic acid	<1.9		1	ng/L		06/30/2022 10:17	35726850005
Perfluorooctanesulfonic acid	4.9		1	ng/L	10	06/30/2022 10:17	35726850005
Perfluorooctanoic acid	**13.3***		1	ng/L	10	06/30/2022 10:17	35726850005
Surr: 13C2-PFDA (S)	98%		1	%REC		06/30/2022 10:17	35726850005
Surr: 13C2-PFHxA (S)	94%		1	%REC		06/30/2022 10:17	35726850005
Surr: HFPO-DAS (S)	90%		1	%REC		06/30/2022 10:17	35726850005

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

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

Date Reported: 07/05/2022

Jennifer Aracri

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Laboratory Results

Results for the samples and analytes requested

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

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

Pace
575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 06/14/2022 12:34 PM Point N-05156
Received : 06/14/2022 05:50 PM Location Well #44A
Collected By PACE Elmont

Lab No. : 70218452006
Client Sample ID.: N-05156

Analytical Method: EPA 537.1 Prep Method: EPA 537.1 Prep Date: 06/23/2022 11:40

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.9		1	ng/L		06/30/2022 10:32	006 BP3T1/2
Perfluoroheptanoic acid	2.8		1	ng/L		06/30/2022 10:32	006 BP3T1/2
Perfluorohexanesulfonic acid	3.4		1	ng/L		06/30/2022 10:32	006 BP3T1/2
Perfluorononanoic acid	4.2		1	ng/L		06/30/2022 10:32	006 BP3T1/2
Perfluorooctanesulfonic acid	7.2		1	ng/L	10	06/30/2022 10:32	006 BP3T1/2
Perfluorooctanoic acid	5.4		1	ng/L	10	06/30/2022 10:32	006 BP3T1/2
Surr: 13C2-PFDA (S)	101%		1	%REC		06/30/2022 10:32	006 BP3T1/2
Surr: 13C2-PFHxA (S)	97%		1	%REC		06/30/2022 10:32	006 BP3T1/2
Surr: HFPO-DAS (S)	95%		1	%REC		06/30/2022 10:32	006 BP3T1/2

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

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

Date Reported: 07/05/2022

Jennifer Aracri

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Laboratory Results

Results for the samples and analytes requested

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Pace
575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

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

Treatment
Air Stripper/GAC

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner

Lab No. : 70218452007
Client Sample ID.: AS/GAC-44/44A

Federal ID : 2902830
Collected : 06/14/2022 12:08 PM Point AS/GAC-44/44A
Received : 06/14/2022 05:50 PM Location Well 44,44A
Collected By PACE

Analytical Method: EPA 537.1 Prep Method: EPA 537.1 Prep Date: 06/23/2022 11:40

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.8	P4	1	ng/L		06/30/2022 11:04	007 BP3T1/2
Perfluoroheptanoic acid	<1.8	P4	1	ng/L		06/30/2022 11:04	007 BP3T1/2
Perfluorohexanesulfonic acid	<1.8	P4	1	ng/L		06/30/2022 11:04	007 BP3T1/2
Perfluorononanoic acid	<1.8	P4	1	ng/L		06/30/2022 11:04	007 BP3T1/2
Perfluorooctanesulfonic acid	<1.8	P4	1	ng/L	10	06/30/2022 11:04	007 BP3T1/2
Perfluorooctanoic acid	<1.8	P4	1	ng/L	10	06/30/2022 11:04	007 BP3T1/2
Surr: 13C2-PFDA (S)	100%		1	%REC		06/30/2022 11:04	007 BP3T1/2
Surr: 13C2-PFHxA (S)	96%		1	%REC		06/30/2022 11:04	007 BP3T1/2
Surr: HFPO-DAS (S)	93%		1	%REC		06/30/2022 11:04	007 BP3T1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
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Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 07/05/2022

Jennifer Aracri

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Laboratory Results

Results for the samples and analytes requested

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Pace
575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

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

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 06/14/2022 12:42 PM
Received : 06/14/2022 05:50 PM
Collected By PACE

Lab No. : 70218452008
Client Sample ID.: N-06744
Point N-06744
Location Well #44B
Elmont

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 06/23/2022 11:40

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	6.6		1	ng/L		06/30/2022 11:20	008 BP3T1/2
Perfluoroheptanoic acid	6.8		1	ng/L		06/30/2022 11:20	008 BP3T1/2
Perfluorohexanesulfonic acid	4.6		1	ng/L		06/30/2022 11:20	008 BP3T1/2
Perfluorononanoic acid	<1.8		1	ng/L		06/30/2022 11:20	008 BP3T1/2
Perfluorooctanesulfonic acid	7.0		1	ng/L	10	06/30/2022 11:20	008 BP3T1/2
Perfluorooctanoic acid	**18.2***		1	ng/L	10	06/30/2022 11:20	008 BP3T1/2
Surr: 13C2-PFDA (S)	93%		1	%REC		06/30/2022 11:20	008 BP3T1/2
Surr: 13C2-PFHxA (S)	94%		1	%REC		06/30/2022 11:20	008 BP3T1/2
Surr: HFPO-DAS (S)	88%		1	%REC		06/30/2022 11:20	008 BP3T1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.Estimated value - below calibration range
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Result(s) reported meet(s) NYS Regulatory Limit(s).
Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit Noted.

Date Reported: 07/05/2022

Jennifer Aracri

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Laboratory Results

Results for the samples and analytes requested

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

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner
Federal ID : 2902830
Collected : 06/14/2022 12:44 PM
Received : 06/14/2022 05:50 PM
Collected By PACE

Lab No. : 70218452009
Client Sample ID.: N-06745
Point N-06745
Location Well #44C
Elmont

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 06/23/2022 11:40

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	2.8		1	ng/L		06/30/2022 11:35	009 BP3T1/2
Perfluoroheptanoic acid	2.7		1	ng/L		06/30/2022 11:35	009 BP3T1/2
Perfluorohexanesulfonic acid	2.3		1	ng/L		06/30/2022 11:35	009 BP3T1/2
Perfluorononanoic acid	<1.8		1	ng/L		06/30/2022 11:35	009 BP3T1/2
Perfluorooctanesulfonic acid	2.8		1	ng/L	10	06/30/2022 11:35	009 BP3T1/2
Perfluorooctanoic acid	7.0		1	ng/L	10	06/30/2022 11:35	009 BP3T1/2
Surr: 13C2-PFDA (S)	94%		1	%REC		06/30/2022 11:35	009 BP3T1/2
Surr: 13C2-PFHxA (S)	94%		1	%REC		06/30/2022 11:35	009 BP3T1/2
Surr: HFPO-DAS (S)	91%		1	%REC		06/30/2022 11:35	009 BP3T1/2

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

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

Date Reported: 07/05/2022

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Laboratory Results

Results for the samples and analytes requested

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

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

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

Treatment
Air Stripper/GAC

Water Auth. of Western Nassau
1580 Union Tpke.
New Hyde Park, NY 11040
Attn To : Michael Leiner

Lab No. : 70218452010
Client Sample ID.: AS/GAC-44B/44C

Federal ID : 2902830
Collected : 06/14/2022 12:28 PM Point AS/GAC-44B/44C
Received : 06/14/2022 05:50 PM Location Well 44B,44C
Collected By PACE

Analytical Method:EPA 537.1 Prep Method: EPA 537.1 Prep Date: 06/23/2022 11:40

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.8		1	ng/L		06/30/2022 11:51	010 BP3T1/2
Perfluoroheptanoic acid	<1.8		1	ng/L		06/30/2022 11:51	010 BP3T1/2
Perfluorohexanesulfonic acid	<1.8		1	ng/L		06/30/2022 11:51	010 BP3T1/2
Perfluorononanoic acid	<1.8		1	ng/L		06/30/2022 11:51	010 BP3T1/2
Perfluorooctanesulfonic acid	<1.8		1	ng/L	10	06/30/2022 11:51	010 BP3T1/2
Perfluorooctanoic acid	<1.8		1	ng/L	10	06/30/2022 11:51	010 BP3T1/2
Surr: 13C2-PFDA (S)	90%		1	%REC		06/30/2022 11:51	010 BP3T1/2
Surr: 13C2-PFHxA (S)	94%		1	%REC		06/30/2022 11:51	010 BP3T1/2
Surr: HFPO-DAS (S)	91%		1	%REC		06/30/2022 11:51	010 BP3T1/2

Qualifiers:
DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
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Result(s) reported meet(s) NYS Regulatory Limit(s).
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Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported: 07/05/2022

575 Broad Hollow Road, Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

WorkOrder :
70218452

Laboratory Certifications

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
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

CHAIN-OF-CUSTODY / Analytical Request

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields n

WO# : 70218452

70218452

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.p

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Water Auth. of Western Nassau	Report To: Joseph Corbisiero	Attention:	
Address: 1580 Union Tpke.	Copy To:	Company Name:	Regulatory Agency
New Hyde Park, NY 11040		Address:	
Email: jcorbisiero@wawnc.org	Purchase Order #:	Pace Quote:	
Phone: (516)327-4053 Fax	Project Name: PFAS 6/14	Pace Project Manager: jennifer.aracri@pacelabs.com,	State / Location: NY
Requested Due Date:	Project #:	Pace Profile #: 5131	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	PFAS by 537	Residual Chlorine (Y/N)
1	N-10206	DW				6/14/22	11:48												X	
2	N-10207	DW					11:50												X	
3	N-02414	DW					10:40												X	
4	GAC-02414	DW					10:36												X	
5	N-05155	DW					12:32												X	
6	N-05156	DW					12:34												X	
7	AS/GAC-44/44A	DW					12:08												X	
8	N-06744	DW					12:42												X	
9	N-06745	DW					12:44												X	
10	AS/GAC-44B/44C	DW				↓	12:28												X	
11																				
12																				

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		6/14/22	1750	PACE	6/14/22	17:50	9.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: ILHAN ILIK

SIGNATURE of SAMPLER:

DATE Signed: 6/14/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical®

Sample Condition Upon Recr

WO#: 70218452

PM: JSA Due Date: 06/27/22

CLIENT: WAWN

Client Name: WAWN Projec

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☑ No

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

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 TH188 Correction Factor: + 0.1

☐ Samples on ice, cooling process has begun

Cooler Temperature(°C): 9.6 Cooler Temperature Corrected(°C): 9.7

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

6/14/22

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

Date and Initials of person examining contents: I.I 1750

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

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

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	~~☐ No~~		5. HAS 6/16/22
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for I	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL WT OIL				
All containers needing preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # 4160 347				
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

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

Person Contacted: Date/Time:

Comments/ Resolution:

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

ENV-FRM-MELV-0024 01