D&B ENGINEERS AND ARCHITECTS

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October 8, 2021

New York American Water – Sea Cliff Operations District
PWS ID No. NY2902853
MCL Deferral for PFOA and PFOS
Quarterly Report – Third Quarter 2021

Introduction

On behalf of New York American Water (NYAW), 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 PFOA, and PFOS. The Sea Cliff Operations District was granted an MCL deferral for PFOA and PFOS in 2020. NYAW was granted a deferral for the Sea Cliff Operations District due to its proactive efforts toward the implementation of treatment for these compounds.

The enclosed is a report describing NYAW's progress towards maintaining the highest quality of water for our customers in the Sea Cliff Operations District and meeting the deadlines set forth in the deferral approval. The schedule for the project is contained in **Attachment A**.

Corrective Action Plan Milestones

Glen Head Station Granular Activated Carbon Project ("GAC")

The Glen Head Station GAC project is currently under construction. Completed plans were submitted to the Town of Oyster Bay's (TOB) Building Department and to the Nassau County Department of Health (NCDOH) in August of 2020. NYAW received approval for construction in January of 2021 after obtaining approval from the Zoning Board of Appeals. Approval from the NCDOH was received in March of 2021. In the interim, the contract was competitively bid and awarded.

Site work, concrete, plumbing/piping are at approximate 90% completion. The footings, foundations, slabs and concrete pads have been poured and approved by the TOB. Treatment vessels have been delivered to the site and underground piping has been finished with aboveground connecting piping installation currently underway. Before the vessels were delivered, extensive coordination with the vessel manufacturer, the crane operator, the electrical utility (PSEG) and NYAW had to be finalized. NYAW closely coordinated with PSEG in order to temporarily remove high voltage overhead wires; however, due to PSEG's tight summer schedule, the delivery was moved from July 2021 to September 16, 2021. NYAW and the contractor worked closely together to finalize all the steps necessary to clear the roads for a smooth equipment delivery on site. By the end of September 2021, the project schedule is projected to be at a 75% completion. Once all the piping is finalized, NYAW, D&B engineers and the contractor will work closely together to submit all necessary documents to the Health Department for request approval to operate the new treatment system.

Every effort was made by NYAW to meet the December 2021 timeframe for project completion; however, delays related scheduling and coordinating with PSEG set the anticipated project schedule back by several months. NYAW anticipates submitting an updated deferral request with the NCDH to account for these delays and set a new compliance timeline. All necessary public notification will be delivered when completed.

Although it has been granted a deferral, the Sea Cliff Operations District was able to minimize the usage of this well.

Public Notification

NYAW notified our north shore customers of a key construction milestone reached in Q3 2021. NYAW posted social content regarding the installation of four Granular Activated Carbon vessels to remove PFAS compounds from the source water. An update was also provided to elected officials for the area. Public notification regarding the presence and regulation of emerging compounds, as well as the deferral, was included in NYAW's 2020 Annual Water Quality Report/Consumer Confidence Report released in June. The report was posted on NYAW's website and publicized via newspaper ads and bill insert. The report specific to the Sea Cliff Operations District is available at https://www.amwater.com/ccr/seacliff.pdf. In addition, NYAW has uploaded this quarterly report to their website at https://www.amwater.com/nyaw/water-quality/Emerging-Compounds/glen-head. Documentation of public notification is contained in **Attachment B**.

Analytical Sampling

Sample results for the well for which the deferral was granted (Glen Head Well PWS# NY2902853) taken through the third quarter of 2021 are contained in the table below. Full laboratory reports for each sample are contained in **Attachment C**.

Q3 2021 PFOA and PFOS Water Quality Monitoring Results (ng/L or ppt)

Sea Cliff OPS District (PWS# NY 2902853)					
Location	**Well ID #**	**Date Sampled**	**Lab Utilized**	**PFOA (ng/L)**	**PFOS (ng/L)**
Glen Head Well	N-05792	9/9/2021	Pace	3.1	8.5
Glen Head Well	N-05792	6/16/2021[1]	Pace	3.2	6.5
Glen Head Well	N-05792	1/26/2021	Pace	ND	ND
Glen Head Well	N-05792	12/7/2020	AW Central Lab	2.5	3.9
Glen Head Well	N-05792	9/23/2020	AW Central Lab	4.2	11.7
Glen Head Well	N-05792	5/27/2020	AW Central Lab	1.5	1.8

[1]*Q2 data is being provided under Q3 reporting as previously indicated in Q2 report.*
ND = Non Detect.

Conclusion

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

Should you have any questions, please contact NYAW at (877) 426-6999 or visit the website, https://www.amwater.com/nyaw/.

Very truly yours,

Philip Sachs, PE
Vice President

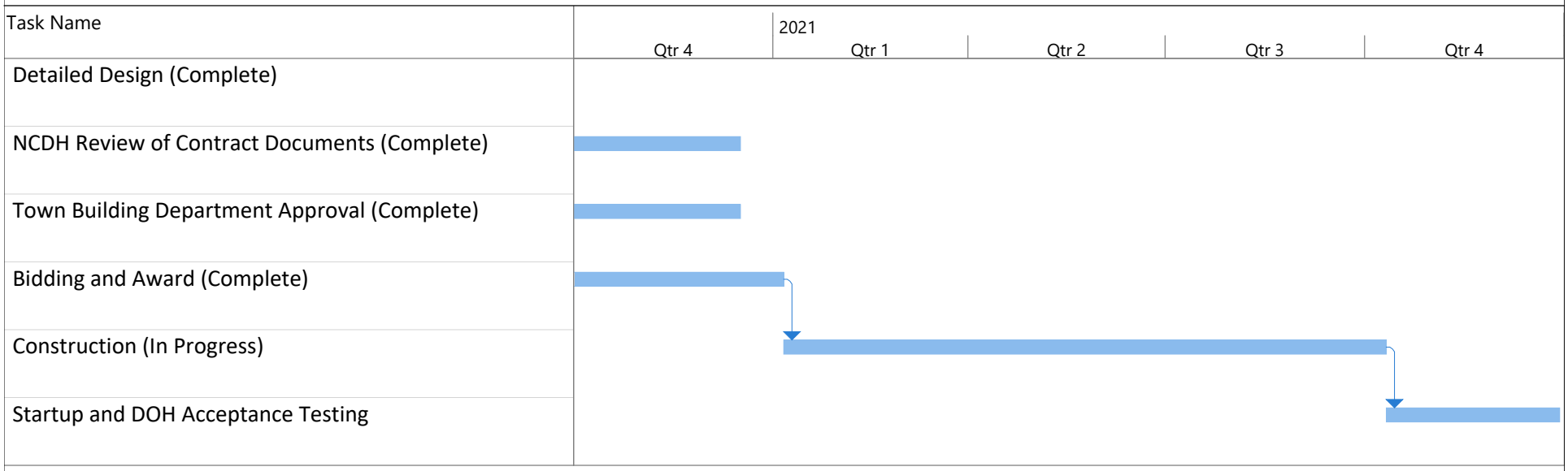
PRSt/kb
Enclosures
cc: K. Wheeler (NYSDOH)
B. Rogers (NYSDOH)
W. Provoncha (NCDH)
P. Young (NCDH)
R. Putnam (NCDH)
L. DiMenna (NYAW)
J. Kilpatrick (NYAW)
R. Fernandez (NYAW)
♦5446\PRS100821-NYAW Sea Cliff(R01)

ATTACHMENT A

MCL Deferral Project Schedule

New York American Water
Sea Cliff Operations District
MCL Deferral - Quarterly Report

GAC System at the Glen Head Pump Station
Project Schedule



ATTACHMENT B

Public Notification Documentation

September 17, 2021

Dear Elected Official,

New York American Water has reached a key milestone in the construction of water treatment to meet the new New York State water quality standard for PFAS compounds.

On Thursday, four Granular Activated Carbon vessels were hoisted into position for the new PFAS treatment plant being constructed at our Glen Head Well in Glen Head. Each vessel contains 20,000 pounds of carbon, which will remove the trace amounts of PFAS compounds detected in the area's source water. This is an important step in constructing treatment for our North Shore customers. We anticipate that treatment will be online in Q1 2022.

Here are photos of yesterday's installation.

More information and quarterly updates on our progress to install treatment are available at www.nyamwater.com/water-quality/Emerging-Compounds/glen-head. If you have any questions, please reach out to my office.

Sincerely,

Lynda DiMenna
President, New York American Water

Tips, tools and technology to help customers conserve water are available at www.nyamwater.com/conservation

QUALITY. ONE MORE WAY WE KEEP LIFE FLOWING.

See what's happening on our social sites

New York American Water
Posted by Lee Mueller
22h ·

Important milestone for our North Shore customers! This morning, New York American Water lifted four Granular Activated Carbon vessels into place at our Glen Head Well. These vessels contain 20,000 pounds of carbon each, 80,000 pounds total, and will remove the trace amounts of PFAS compounds detected in the area's drinking water. This is an important step to meeting New York State's strict new drinking water standard for PFAS. Learn more: https://www.amwater.com/nyaw/water-quality/Emerging-Compounds/glen-head

ATTACHMENT C

Water Quality Data

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

Laboratory Results

Results for the samples and analytes requested

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

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

New York American Water Sea Cliff OPS
60 Brooklyn Avenue
Merrick, NY 11566
Attn To : Natasha Niola

Lab No. : 70186908001
Client Sample ID.: N-14340

Federal ID : 2902853
Collected : 09/09/2021 09:44 AM Point N-14340
Received : 09/09/2021 12:28 PM Location Well #1-A
Collected By CLIENT

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

Analytical Method: EPA 180.1

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Turbidity	<1.0		1	NTU	5	09/10/2021 7:07 PM	001 BP3U1/1

Analytical Method: EPA 200.7

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Iron	<0.020		1	mg/L	0.3	09/17/2021 7:17 PM	001 BP4N1/1

Analytical Method: EPA 300.0

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Chloride	5.4		1	mg/L	250	09/21/2021 10:01	001 BP3U1/1

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 09/15/2021 8:37 AM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	<0.020		1	ug/L	1	09/15/2021 7:33 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	102%		1	%REC		09/15/2021 7:33 PM	001 AG2R1/2

Analytical Method: EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2

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
See qualifiers page for additional qualifier definitions.

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

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

Pace Analytical®
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TEL: (631) 694-3040 FAX: (631) 420-8436
www.pacelabs.com

Laboratory Results

Results for the samples and analytes requested

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

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

New York American Water Sea Cliff OPS
60 Brooklyn Avenue
Merrick, NY 11566
Attn To : Natasha Niola
Federal ID : 2902853
Collected : 09/09/2021 09:44 AM Point N-14340
Received : 09/09/2021 12:28 PM Location Well #1-A
Collected By CLIENT

Lab No. : 70186908001
Client Sample ID.: N-14340

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

1,4-Dichlorobenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Benzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		09/17/2021 9:36 PM	001 VG9C1/2
Bromoform	<0.50		1	ug/L		09/17/2021 9:36 PM	001 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Chloroform	<0.50		1	ug/L		09/17/2021 9:36 PM	001 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		09/17/2021 9:36 PM	001 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	09/17/2021 9:36 PM	001 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Styrene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Toluene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	09/17/2021 9:36 PM	001 VG9C1/2
Trichloroethene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	09/17/2021 9:36 PM	001 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2

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Jennifer Aracri

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Results for the samples and analytes requested

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Collected By CLIENT

Lab No. : 70186908001
Client Sample ID.: N-14340

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

trans-1,2-Dichloroethene	<0.50	1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
trans-1,3-Dichloropropene	<0.50	1	ug/L	5	09/17/2021 9:36 PM	001 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	90%	1	%REC		09/17/2021 9:36 PM	001 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	99%	1	%REC		09/17/2021 9:36 PM	001 VG9C1/2

Analytical Method: EPA 537.1 Prep Method: EPA 537.1 Prep Date: 09/14/2021 11:55

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	<1.9		1	ng/L		09/16/2021 4:16 PM	001 BP3T1/2
Perfluoroheptanoic acid	<1.9		1	ng/L		09/16/2021 4:16 PM	001 BP3T1/2
Perfluorohexanesulfonic acid	<1.9		1	ng/L		09/16/2021 4:16 PM	001 BP3T1/2
Perfluorononanoic acid	<1.9		1	ng/L		09/16/2021 4:16 PM	001 BP3T1/2
Perfluorooctanesulfonic acid	<1.9		1	ng/L	10	09/16/2021 4:16 PM	001 BP3T1/2
Perfluorooctanoic acid	<1.9		1	ng/L	10	09/16/2021 4:16 PM	001 BP3T1/2
Surr: 13C2-PFDA (S)	90%		1	%REC		09/16/2021 4:16 PM	001 BP3T1/2
Surr: 13C2-PFHxA (S)	91%		1	%REC		09/16/2021 4:16 PM	001 BP3T1/2
Surr: HFPO-DAS (S)	88%		1	%REC		09/16/2021 4:16 PM	001 BP3T1/2

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Results for the samples and analytes requested

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

New York American Water Sea Cliff OPS
60 Brooklyn Avenue
Merrick, NY 11566
Attn To : Natasha Niola
Federal ID : 2902853
Collected : 09/09/2021 10:42 AM Point N-05792
Received : 09/09/2021 12:28 PM Location Glen Head Well
Collected By CLIENT

Lab No. : 70186908002
Client Sample ID.: N-05792

Analytical Method:EPA 300.0

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Chloride	32.9		1	mg/L	250	09/18/2021 12:46	002 BP4U1/3

Analytical Method:EPA 314.0

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perchlorate	<4.00		1	ug/L	18	09/17/2021 2:36 PM	

Analytical Method:EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrate as N	4.0		5	mg/L	10	09/10/2021 12:58	002 BP4U1/3
Nitrate-Nitrite (as N)	4.0		5	mg/L		09/10/2021 12:58	002 BP4U1/3

Analytical Method:EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	09/09/2021 9:41 PM	002 BP4U1/3

Analytical Method:EPA 522 Prep Method: EPA 522 Prep Date: 09/15/2021 8:37 AM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.073		1	ug/L	1	09/15/2021 8:07 PM	002 AG2R1/1
Surr: 1,4-Dioxane-d8 (S)	102%		1	%REC		09/15/2021 8:07 PM	002 AG2R1/1

Analytical Method:EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2

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

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

New York American Water Sea Cliff OPS
60 Brooklyn Avenue
Merrick, NY 11566
Attn To : Natasha Niola
Federal ID : 2902853
Collected : 09/09/2021 10:42 AM Point N-05792
Received : 09/09/2021 12:28 PM Location Glen Head Well
Collected By CLIENT

Lab No. : 70186908002
Client Sample ID.: N-05792

1,3-Dichlorobenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Benzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		09/17/2021 10:02	002 VG9C1/2
Bromoform	<0.50		1	ug/L		09/17/2021 10:02	002 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Chloroform	<0.50		1	ug/L		09/17/2021 10:02	002 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		09/17/2021 10:02	002 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	09/17/2021 10:02	002 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Styrene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Toluene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	09/17/2021 10:02	002 VG9C1/2
Trichloroethene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	09/17/2021 10:02	002 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	09/17/2021 10:02	002 VG9C1/2

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Federal ID : 2902853
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Collected By CLIENT

Lab No. : 70186908002
Client Sample ID.: N-05792

trans-1,3-Dichloropropene	<0.50	1	ug/L	5	09/17/2021 10:02	002 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	90%	1	%REC		09/17/2021 10:02	002 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	96%	1	%REC		09/17/2021 10:02	002 VG9C1/2

Analytical Method: EPA 537.1 Prep Method: EPA 537.1 Prep Date: 09/14/2021 11:55

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perfluorobutanesulfonic acid	1.9		1	ng/L		09/16/2021 4:23 AM	002 BP3T1/2
Perfluoroheptanoic acid	<1.9		1	ng/L		09/16/2021 4:23 AM	002 BP3T1/2
Perfluorohexanesulfonic acid	7.7		1	ng/L		09/16/2021 4:23 AM	002 BP3T1/2
Perfluorononanoic acid	<1.9		1	ng/L		09/16/2021 4:23 AM	002 BP3T1/2
Perfluorooctanesulfonic acid	8.5		1	ng/L	10	09/16/2021 4:23 AM	002 BP3T1/2
Perfluorooctanoic acid	3.1		1	ng/L	10	09/16/2021 4:23 AM	002 BP3T1/2
Surr: 13C2-PFDA (S)	107%		1	%REC		09/16/2021 4:23 AM	002 BP3T1/2
Surr: 13C2-PFHxA (S)	99%		1	%REC		09/16/2021 4:23 AM	002 BP3T1/2
Surr: HFPO-DAS (S)	75%		1	%REC		09/16/2021 4:23 AM	002 BP3T1/2

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WorkOrder :
70186908

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
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

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

Pace Analytical Services National
12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340

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WorkOrder :
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Laboratory Certifications

Pace Analytical Services National

Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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Additional Qualifiers

N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

WO# : 70186908

70186908

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

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 9-9-21

Collected By: J. Palmer

Accepted By: Matt 9/9/21 12:28

Cooler Temp: 12.8 °C (B)

☐ WELL OFF LINE _____

☑ WELL RUN TO SYSTEM _____

☑ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: SCAW

Address: 60 Brooklyn Ave
Merrick, NY 11566

Phone #: 516-632-2239

Attn: Natasha Nirla

Proj. # or (Name): —

Bill To: _____

Copies To: _____

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
9/9/21 0940	GW	SC Well 1A (N-14340)	TW	O	RO			POC(+)Chloride(+)Turbidity(+)Fe	001
0944								PFC(+)1,4-Dioxane	↓
0946						1.28	8.60 / 16.9	WQP w/orthophosphate	
0948							6.70 / 15.5	IOC w/ Perchlorate	
1040		Glen Head well (N-05792)						POC(+)Chloride(+)Perchlorate(+)Nitrate/Nitrite	002
1042								PFC(+)1,4-Dioxane	↓
1044						0.28	7.26 / 16.4	WQP w/orthophosphate	
1046							6.61 / 15.1	IOC w/ Perchlorate	

Remarks:

Pace Analytical®

Sample Condition Upon Rec

WO#: 70186908
PM: JSA **Due Date: 09/20/21**
CLIENT: SCAW

Client Name: SCAW

Proje

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

Tracking #:

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

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

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 12.8 Cooler Temperature Corrected(°C): 12.8

Temp should be above freezing to 6.0°C

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

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet (Blue) None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: 9/9/21 JP

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

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

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL (WT) OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC025486				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				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 #				
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.

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

New York American Water Sea Cliff OPS
60 Brooklyn Avenue
Merrick, NY 11566
Attn To : Natasha Niola

Lab No. : 70177157001
Client Sample ID.: N-14340

Federal ID : 2902853
Collected : 06/16/2021 09:05 AM Point N-14340
Received : 06/16/2021 01:01 PM Location Well #1-A
Collected By CLIENT

Sample Comments:
Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice and the cooling process has begun.

Analytical Method: EPA 180.1

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Turbidity	<1.0		1	NTU	5	06/16/2021 8:00 PM	001 BP3U1/1

Analytical Method: EPA 200.7

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Iron	<0.020		1	mg/L	0.3	06/28/2021 5:56 PM	001 BP4N1/1

Analytical Method: EPA 300.0

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Chloride	3.7		1	mg/L	250	06/29/2021 4:43 AM	001 BP3U1/1

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 06/24/2021 9:59 AM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.075		1	ug/L	1	06/24/2021 5:07 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	98%		1	%REC		06/24/2021 5:07 PM	001 AG2R1/2

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Date Reported: 07/13/2021

Jennifer Aracri

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New York American Water Sea Cliff OPS
60 Brooklyn Avenue
Merrick, NY 11566
Attn To : Natasha Niola
Federal ID : 2902853
Collected : 06/16/2021 09:10 AM Point N-14340
Received : 06/16/2021 01:01 PM Location Well #1-A
Collected By CLIENT

Lab No. : 70177157002
Client Sample ID.: N-14340

Analytical Method: EPA 120.1

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Specific Conductance	75.2		1	umhos/cm		06/20/2021 6:53 AM	002 BP3U1/1

Analytical Method: EPA 200.7

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Calcium	2.2		1	mg/L		06/28/2021 5:58 PM	002 BP4N1/1

Analytical Method: Field Method

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Field Temperature	15.4	N3	1	deg C		06/16/2021 9:10 AM	002 BP3U1/1
Field pH	7.73	N3	1	Std. Units		06/16/2021 9:10 AM	002 BP3U1/1

Analytical Method: SM22 2320B

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Alkalinity, Total as CaCO3	30.1		1	mg/L		06/29/2021 6:21 PM	002 BP3U1/1

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See qualifiers page for additional qualifier definitions.

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

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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

Laboratory Results

Results for the samples and analytes requested

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

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

New York American Water Sea Cliff OPS
60 Brooklyn Avenue
Merrick, NY 11566
Attn To : Natasha Niola
Federal ID : 2902853
Collected : 06/16/2021 10:40 AM Point N-05792
Received : 06/16/2021 01:01 PM Location Glen Head Well
Collected By CLIENT

Lab No. : 70177157003
Client Sample ID.: N-05792

Analytical Method: EPA 300.0

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Chloride	29.8		1	mg/L	250	06/30/2021 4:39 PM	003 BP3U1/1

Analytical Method: EPA 314.0

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Perchlorate	<4.00		1	ug/L	18	06/30/2021 9:34 AM	

Analytical Method: EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrate as N	4.1		5	mg/L	10	06/17/2021 1:09 AM	003 BP3U1/1
Nitrate-Nitrite (as N)	4.1		5	mg/L		06/17/2021 1:09 AM	003 BP3U1/1

Analytical Method: EPA 353.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Nitrite as N	<0.050		1	mg/L	1	06/16/2021 11:32	003 BP3U1/1

Analytical Method: EPA 522 Prep Method: EPA 522 Prep Date: 06/24/2021 9:59 AM

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	<0.020		1	ug/L	1	06/24/2021 5:39 PM	003 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	96%		1	%REC		06/24/2021 5:39 PM	003 AG2R1/2

Analytical Method: EPA 524.2

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2

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See qualifiers page for additional qualifier definitions.

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

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

New York American Water Sea Cliff OPS
60 Brooklyn Avenue
Merrick, NY 11566
Attn To : Natasha Niola
Federal ID : 2902853
Collected : 06/16/2021 10:40 AM Point N-05792
Received : 06/16/2021 01:01 PM Location Glen Head Well
Collected By CLIENT

Lab No. : 70177157003
Client Sample ID.: N-05792

1,3-Dichlorobenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Benzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		06/24/2021 3:24 PM	003 VG9C1/2
Bromoform	<0.50		1	ug/L		06/24/2021 3:24 PM	003 VG9C1/2
Bromomethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Chloroform	<0.50		1	ug/L		06/24/2021 3:24 PM	003 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		06/24/2021 3:24 PM	003 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	06/24/2021 3:24 PM	003 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Styrene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Toluene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	06/24/2021 3:24 PM	003 VG9C1/2
Trichloroethene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	06/24/2021 3:24 PM	003 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2

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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

New York American Water Sea Cliff OPS
60 Brooklyn Avenue
Merrick, NY 11566
Attn To : Natasha Niola
Federal ID : 2902853
Collected : 06/16/2021 10:40 AM Point N-05792
Received : 06/16/2021 01:01 PM Location Glen Head Well
Collected By CLIENT

Lab No. : 70177157003
Client Sample ID.: N-05792

trans-1,3-Dichloropropene	<0.50	1	ug/L	5	06/24/2021 3:24 PM	003 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	85%	1	%REC		06/24/2021 3:24 PM	003 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	87%	1	%REC		06/24/2021 3:24 PM	003 VG9C1/2

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Laboratory Results

Results for the samples and analytes requested

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

New York American Water Sea Cliff OPS
60 Brooklyn Avenue
Merrick, NY 11566
Attn To : Natasha Niola
Federal ID : 2902853
Collected : 06/16/2021 10:45 AM Point N-05792
Received : 06/16/2021 01:01 PM Location Glen Head Well
Collected By CLIENT

Lab No. : 70177157004
Client Sample ID.: 7002

Analytical Method: EPA 120.1

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Specific Conductance	315		1	umhos/cm		06/20/2021 6:54 AM	004 BP3U1/1

Analytical Method: EPA 200.7

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Calcium	15.1		1	mg/L		06/28/2021 6:00 PM	004 BP4N1/1

Analytical Method: Field Method

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Field Temperature	14.6	N3	1	deg C		06/16/2021 10:45	004 BP3U1/1
Field pH	6.90	N3	1	Std. Units		06/16/2021 10:45	004 BP3U1/1

Analytical Method: SM22 2320B

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Alkalinity, Total as CaCO3	70.1		1	mg/L		06/29/2021 6:28 PM	004 BP3U1/1

Qualifiers:
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WorkOrder :
70177157

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 Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340

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WorkOrder :
70177157

Laboratory Certifications

Pace Analytical Services National

Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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WorkOrder :
70177157

Additional Qualifiers

N3 - Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

Report of Analysis

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
Attention: Jennifer Aracri

Project Name: PFAS/1,4DIOX/TURB/FE/WQP 6/16

Project Number: 70177157

Lot Number:**WF21049**

Date Completed:07/12/2021

07/13/2021 5:15 PM
Approved and released by:
Project Manager II: **Karen L. Coonan**

Case Narrative
Pace Analytical Services, LLC
Lot Number: WF21049

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Sample was collected in client-provided bottles. While this is method compliant, the sample bottles were not provided by Pace-West Columbia.

Sample Summary
Pace Analytical Services, LLC
Lot Number: WF21049
Project Name: PFAS/1,4DIOX/TURB/FE/WQP 6/16
Project Number: 70177157

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	N-14340	Aqueous	06/16/2021 0905	06/18/2021
002	N-05792	Aqueous	06/16/2021 1040	06/18/2021

(2 samples)

Detection Summary

Pace Analytical Services, LLC

Lot Number: WF21049

Project Name: PFAS/1,4DIOX/TURB/FE/WQP 6/16

Project Number: 70177157

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	N-05792	Aqueous	PFHxS	537.1	5.7		ng/L	6
002	N-05792	Aqueous	PFOA	537.1	3.2		ng/L	6
002	N-05792	Aqueous	PFOS	537.1	6.5		ng/L	6

(3 detections)

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WF21049-001**

Description: **N-14340** Matrix: **Aqueous**

Date Sampled: **06/16/2021 0905** Project Name: **PFAS/1,4DIOX/TURB/FE/WQP**

Date Received: **06/18/2021** Project Number: **70177157**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	07/01/2021 1624	JJG	06/25/2021 1832	96872

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Perfluoro-1-butane sulfonic acid (PFBS)	375-73-5	537.1	ND		2.0	ng/L	1
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	537.1	ND		2.0	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1	ND		2.0	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1	ND		2.0	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	537.1	ND		2.0	ng/L	1
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	537.1	ND		2.0	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_PFHxA		85	70-130
13C3-HFPO-DA		85	70-130
13C6_PFDA		97	70-130
d5-EtFOSAA		88	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WF21049-002**

Description: **N-05792** Matrix: **Aqueous**

Date Sampled: **06/16/2021 1040** Project Name: **PFAS/1,4DIOX/TURB/FE/WQP**

Date Received: **06/18/2021** Project Number: **70177157**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537.1	537.1	1	07/01/2021 1646	JJG	06/25/2021 1832	96872

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Perfluoro-1-butane sulfonic acid (PFBS)	375-73-5	537.1	ND		2.0	ng/L	1
Perfluorohexane sulfonic acid (PFHxS)	**355-46-4**	**537.1**	**5.7**		**2.0**	**ng/L**	**1**
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1	ND		2.0	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1	ND		2.0	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**537.1**	**3.2**		**2.0**	**ng/L**	**1**
Perfluorooctane sulfonic acid (PFOS)	**1763-23-1**	**537.1**	**6.5**		**2.0**	**ng/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_PFHxA		84	70-130
13C3-HFPO-DA		83	70-130
13C6_PFDA		101	70-130
d5-EtFOSAA		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

QC Summary

PFAS by LC/MS/MS - MB

Sample ID: WQ96872-001
Batch: 96872
Analytical Method: 537.1
Matrix: Aqueous
Prep Method: 537.1
Prep Date: 06/25/2021 1832

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
PFBS	ND		1	2.0	ng/L	06/29/2021 2309
PFHxS	ND		1	2.0	ng/L	06/29/2021 2309
PFHpA	ND		1	2.0	ng/L	06/29/2021 2309
PFNA	ND		1	2.0	ng/L	06/29/2021 2309
PFOA	ND		1	2.0	ng/L	06/29/2021 2309
PFOS	ND		1	2.0	ng/L	06/29/2021 2309

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFHxA		85	70-130
13C3-HFPO-DA		83	70-130
13C6_PFDA		99	70-130
d5-EtFOSAA		93	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ96872-002
Batch: 96872
Analytical Method: 537.1

Matrix: Aqueous
Prep Method: 537.1
Prep Date: 06/25/2021 1832

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
PFBS	28	25		1	89	70-130	06/29/2021 2320
PFHxS	29	28		1	97	70-130	06/29/2021 2320
PFHpA	32	32		1	99	70-130	06/29/2021 2320
PFNA	32	29		1	92	70-130	06/29/2021 2320
PFOA	32	31		1	97	70-130	06/29/2021 2320
PFOS	30	29		1	96	70-130	06/29/2021 2320

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFHxA		80	70-130
13C3-HFPO-DA		76	70-130
13C6_PFDA		91	70-130
d5-EtFOSAA		84	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: WF21049-001MS
Batch: 96872
Analytical Method: 537.1
Matrix: Aqueous
Prep Method: 537.1
Prep Date: 06/25/2021 1832

Parameter	Sample Amount (ng/L)	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
PFBS	ND	29	24		1	82	70-130	07/01/2021 1635
PFHxS	ND	30	27		1	90	70-130	07/01/2021 1635
PFHpA	ND	33	33		1	101	70-130	07/01/2021 1635
PFNA	ND	33	33		1	101	70-130	07/01/2021 1635
PFOA	ND	33	33		1	101	70-130	07/01/2021 1635
PFOS	ND	30	27		1	91	70-130	07/01/2021 1635

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFHxA		81	70-130
13C3-HFPO-DA		84	70-130
13C6_PFDA		95	70-130
d5-EtFOSAA		79	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - Duplicate

Sample ID: WF21049-002DU
Batch: 96872
Analytical Method: 537.1

Matrix: Aqueous
Prep Method: 537.1
Prep Date: 06/25/2021 1832

Parameter	Sample Amount (ng/L)	Result (ng/L)	Q	Dil	% RPD	%RPD Limit	Analysis Date
PFBS		ND		1	0.00	20	06/30/2021 0003
PFHxS		5.8		1	9.6	20	06/30/2021 0003
PFHpA		ND		1	0.00	20	06/30/2021 0003
PFNA		ND		1	0.00	20	06/30/2021 0003
PFOA		3.4		1	9.0	20	06/30/2021 0003
PFOS		6.9		1	9.9	20	06/30/2021 0003

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFHxA		81	70-130
13C3-HFPO-DA		81	70-130
13C6_PFDA		97	70-130
d5-EtFOSAA		91	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

Chain of Custody

PASI New York Laboratory

Pace Analytical
www.pacelabs.com

Workorder: 70177157 Workorder Name: PFAS/1,4 DIOX/TURB/FE/WQP 6/16 Results Requested By: 6/30/2021

Report / Invoice To	Subcontract To	Requested Analysis
Jennifer Aracri Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040 Email: jennifer.aracri@pacelabs.com	Pace South Carolina 106 VANTAGE POINT DR, WEST COLUMBIA, SC 29172 P.O. 70177157JSA	

WF21049

YLC2

State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: 342508	PFAS by 537	LAB USE ONLY
1	N-14340	6/16/2021 09:05	70177157001	Drinking		X	
2	N-05792	6/16/2021 10:40	70177157003	Drinking		X	
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	[illegible]		
2				
3	Fedex	6/15/21 1100	[illegible]	6/18/21 1040

Comments: PFAS UCMR3 List $260

Cooler Temperature on Receipt 4.9 °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 6-16-21
Collected By: J. Palmer
Accepted By: Roxanne Seagy
Cooler Temp: 18.8 °C 13:0P

☐ WELL OFF LINE _____

☑ WELL RUN TO SYSTEM _____

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: SCAW
Address: 60 Brooklyn Ave
Merrick, NY 11566
Phone #: 516-632-2239
Attn: Natasha Wiley
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
SL	- Soil			I	- Influent		
				E	- Effluent		

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
6/16/21 0900	GW	Sea Cliff Well 1A (N-11370)	RW		RO			PFC ⊕ 1,4-Dioxane	001
0905								Turbidity ⊕ Chlorides ⊕ Fe	
0910			TW	O		1.26	7.73 / 15.4	W/Q Parameters	002
6/16/21 1035	GW	Glen Head Well (N-05792)	RW		RO			PFC ⊕ 1,4-Dioxane	003
1040								PDC ⊕ Perchlorates ⊕ Chlorides ⊕ Nitrates/Nitrites	
1045		Glen Head Well 7002	TW	O	RO	1.05	6.90 / 14.6	W/Q Parameters	004

Remarks:

PACE ANALYTICAL SERVICES, LLC

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Pace Analytical®

Sample Condition Upon Re

WO# : 70177157
PM: JSA Due Date: 06/25/21
CLIENT: SCAW

Client Name: SCAW

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

Tracking #:

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

Temperature Blank Present: ☐ Yes ☑ No

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

Type of Ice: Wet (Blue) None

Thermometer Used: T1091

Correction Factor: +0.0

☐ Samples on ice, cooling process has begun

Cooler Temperature[°C]: 18.8

Cooler Temperature Corrected[°C]: 18.8

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

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

Date and Initials of person examining contents: 6/16/21 IP

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

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

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

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for	☑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 # HC025486				
All containers needing preservation are found to be in compliance with method recommendation?				Sample #
(HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	☑Yes	☐No	☐N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water),				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 #				
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	16.
Trip Blank Present:	☐Yes	☑No	☐N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

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

ENV-FRM-MELV-0024 00

PaceAnalytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: Pace Cooler Inspected by/date: JRG2 / 06/21/2021 Lot #: WF21049

Means of receipt: ☐ Pace ☐ Client ☐ UPS ☑ FedEx ☐ Other: _____

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap Cup ID: NA

4.9 / 4.9 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____
☑ Yes	☐ No		13. Was adequate sample volume available?
☐ Yes	☑ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☐ No	☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc.,) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote # _____

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: JRG2 Date: 06/21/2021

Comments:

WO# : 70177157

70177157

1747

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 6-16-21

Collected By: J. Palmer

Accepted By: Marianne Saagy

Cooler Temp: 18.8 °C 13:01

☐ WELL OFF LINE _____

☑ WELL RUN TO SYSTEM _____

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Client Info:

Name or Code: SCAW

Address: 60 Brooklyn Ave
Merrick, NY 11566

Phone #: 516-632-2239

Attn: Natasha Nicla

Proj. # or (Name): _____

Bill To: _____

Copies To: _____

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

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl_2	Field Readings pH/Temp	Analysis	Lab No.
6/16/21 0900	GW	Sea Cliff Well 1A (N-14340)	RW	/	RO	/	/	PFC ⊕ 1,4-Dioxane	001
0905	↓	↓	↓	/	↓	/	/	Turbidity ⊕ Chlorides ⊕ Fe	↓
0910	↓	↓	TW	O	↓	1.26	7.73 / 15.4	W/Q Parameters	002
6/16/21 1035	GW	Glen Head Well (N-05742)	RW	/	RO	/	/	PFC ⊕ 1,4-Dioxane	003
1040	↓	↓	↓	/	↓	/	/	POC ⊕ Perchlorates ⊕ Chlorides ⊕ Nitrates/Nitrites	↓
1045	↓	Glen Head Well 7002	TW	O	RO	1.05	6.90 / 14.6	W/Q Parameters	004

Remarks:

Pace Analytical®

Sample Condition Upon Re

WO# : 70177157
PM: JSA Due Date: 06/25/21
CLIENT: SCAW

Client Name: SCAW Proj

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other
Tracking #:
Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other
Thermometer Used: TH091 Correction Factor: +0.0
Cooler Temperature(°C): 18.8 Cooler Temperature Corrected(°C): 18.8
Temp should be above freezing to 6.0°C
USDA Regulated Soil (☑ N/A, water sample)

Temperature Blank Present: ☐ Yes ☑ No
Type of Ice: Wet (Blue) None
☐ Samples on ice, cooling process has begun
Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: 6/16/21 IP

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

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

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

				COMMENTS:
Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☑ Yes	☐ No		6.
Rush Turn Around Time Requested:	☐ Yes	☑ No		7.
Sufficient Volume: (Triple volume provided for	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
-Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑ Yes	☐ No		12.
-Includes date/time/ID, Matrix: SL (WT) OIL				
All containers needing preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC025484				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐ Yes	☐ No	☑ N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	☐ Yes	☐ No	☑ N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	☐ Yes	☑ No	☐ N/A	16.
Trip Blank Present:	☐ Yes	☑ No	☐ N/A	17.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if applicable):				

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

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