

April 9, 2021

New York American Water – Merrick Operations District PWS ID No. NY2902840 MCL Deferral for 1,4-dioxane Quarterly Report – First Quarter 2021

Introduction

On behalf of the 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 for public water suppliers who have been granted deferrals from maximum contaminant level (MCL) violations for 1,4-dioxane. NYAW's Merrick Operations District was granted an MCL deferral for 1,4-dioxane in 2020. NYAW was granted a deferral due to its proactive efforts toward the implementation of treatment for this compound.

The enclosed is a report describing NYAW's progress towards maintaining the highest quality of water for its customers in the Merrick Operations District and meeting projected milestones set forth in the terms of the deferral. An updated schedule to describe work towards implementation of treatment is contained in **Attachment A**.

Corrective Action Plan Milestones

Advanced Oxidation Treatment ("AOP") System for Seamans Neck Road Wells 3A and 4

Treatment piloting has been completed and proved efficacy of the AOP/UV treatment process. During the first quarter of 2021, the Basis of Design Report (BODR) was completed and submitted by NYAW to the Nassau County and New York State Departments of Health (NCDOH and NYSDOH, respectively). The project is currently in the detailed design phase, which is expected to be complete by the end of the third quarter of 2021. The design documents must undergo review by the local and state health departments before construction can begin.

Although it has been granted a deferral, NYAW was able to minimize the usage of the Seamans Neck wells.

Public Notification

In accordance with the terms of the deferral, NYAW notified the public of its MCL deferral in multiple ways. The public notification document provided by the NYSDOH was posted on NYAW's website and a postcard with a URL link to this document was sent out to all Merrick Operations District customers. In addition, a press release informing the public of the deferral was released to the local paper, as well as ads placed in the local papers. Documentation of these notification measures are contained in **Attachment B**.

Analytical Sampling

Sample results for the wells which have exhibited MCL exceedances for 1,4-dioxane within the Merrick Operations District during the first quarter of 2021 are presented in the below table. It is noted that in addition to the two wells represented in the deferral application (Seamans Neck Wells 3A and 4), an additional well (Jefferson Well 11) has recently been impacted (within the first quarter of 2021) with 1,4-

D&B ENGINEERS AND ARCHITECTS

April 9, 2021

dioxane at the MCL value. This well has been previously identified for replacement due to age and condition, which is currently under construction. As the deferral addresses the system which this well is a part of, water quality monitoring for this well will be monitored and represented in forthcoming deferral reporting, as required. Full laboratory reports for each sample are contained in **Attachment C**.

Merrick OPS District (PWS# NY 2902840)											
Location	Well ID #	Date Sampled	Lab Utilized	1-4, Dioxane (µg/L)							
Seaman Neck Well 4	N-09338	3/8/2021	Pace	1.7							
Seaman Neck Well 3A	N-14347	3/4/2021	Pace	1.7							
Seaman Neck Well 4	N-09338	1/26/2021	Pace	1.3							
Seaman Neck Well 3A	N-14347	1/26/2020	Pace	2.0							
Jefferson St Well 11	N-07407	3/15/2021	Pace	1.0							

Q1 2021 1,4-dioxane water quality monitoring results (µg/l or ppb)

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 Merrick Operations District. Please advise us of the need to further discuss the recent developments at Jefferson Well 11 at this time.

Should you have any questions, please feel free to contact me at (516) 364-9890, ext. 3401.

Very truly yours,

PILSL

Philip R. Sachs, P.E. Vice President

PRS/PJCt/kb Enclosures cc: K. Wheeler (NYSDOH) B. Rogers (NYSDOH) W. Provoncha (NCDOH) P. Young (NCDOH) R. Putnam (NCDOH) L. DiMenna (NYAW) J. Kilpatrick (NYAW) G. Sachs (NYAW) •5479\PRS040921-Ltr

ATTACHMENT A

MCL Deferral Project Schedule

New York American Water Merrick Operations District MCL Deferral - Quarterly Report	Seamans Neck Road Wells 3A and 4 AOP Project Schedule
Task Name	2021 2022 2023 Qtr 4 Qtr 1 Qtr 2 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4
Pilot Test (Complete)	
Basis of Design Report (Complete)	
NCDH Review of BODR (In Progress)	
Detailed Design (In Progress)	
NCDH Review of Contract Documents	
Town Zoning Process (In Progress)	
Construction	
Startup and DOH Acceptance Testing	

ATTACHMENT B

Public Notification Documentation



MEDIA CONTACT: Lee Mueller External Affairs Manager 516-287-8858 lee.mueller@amwater.com Greg Gordon 631-830-2095 ggordon@zeccmail.com

New York American Water Receives Deferral from State As Company Pursues Treatment for Emerging Compounds

Merrick, NY (January 29, 2021)— New York American Water (NYAW) has received a compliance deferral from the New York State Department of Health as the company pursues treatment for 1,4-Dioxane at its Seamans Neck Road facility in North Wantagh. The compliance deferral is an agreement between NYAW and the Department of Health on a schedule and approach to install treatment improvements to meet new drinking water regulations. This deferral is only available to water providers who have an approved action plan for addressing the new regulations. On August 26, 2020, the New York State Department of Health finalized regulations establishing Maximum Contaminant Levels (MCLs) for 1,4-Dioxane at 1 part per billion (ppb) and perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) at 10 parts per trillion (ppt).

"Combating 1,4-Dioxane and other emerging compounds has been a priority of New York American Water's well before the State regulations were finalized," said New York American Water Director of Engineering John Kilpatrick. "There is no off-the-shelf treatment option for 1,4-Dioxane, so constructing an effective treatment system requires significant planning, design, execution and approvals to come to fruition. Our action plan to implement treatment is well underway and this additional time to come into compliance will allow us to continue serving our customers without interruption."

According to the New York State Department of Health, "The MCLs are set well below levels known to cause health effects in animal studies. Therefore, consuming water with 1,4-Dioxane at the level detected does not pose a significant health risk. Your water continues to be acceptable for all uses."

NYAW's water quality testing showed 1,4-Dioxane in the two groundwater wells at the Seamans Neck Road facility. 1,4-Dioxane measured between 1.4 and 1.7 ppb. PFOA and PFOS were non-detect. To address 1,4-Dioxane, NYAW has prepared for the construction of the necessary Advanced Oxidation Process (AOP) and Granular Activated Carbon (GAC) systems, which are the only approved methods to remove 1,4-Dioxane from the water supply.

AOP treatment, when coupled with GAC, is the only proven method to remove 1,4-Dioxane from the water supply. AOP treatment works by mixing an oxidant (hydrogen peroxide) with water and running it

Press Release



through ultraviolet light. This creates a chemical reaction that breaks apart the 1,4-Dioxane molecules, which can then be removed by the GAC filters prior to the treated water entering the distribution system.

Residents interested in learning more about these emerging compounds, please visit <u>www.nyamwater.com/emergingcompounds</u>. To read the official notice from the Department of Health about the compliance deferral, please visit <u>www.nyamwater.com/emergingcompounds/seamansneck</u>.

###

New York American Water, a subsidiary of American Water (NYSE: AWK), is the largest investorowned water company in New York, providing high-quality and reliable water and/or wastewater services to approximately 350,000 people.

With a history dating back to 1886, American Water is the largest and most geographically diverse U.S. publicly traded water and wastewater utility company. The company employs more than 7,100 dedicated professionals who provide regulated and market-based drinking water, wastewater and other related services to more than 14 million people in 46 states. American Water provides safe, clean, affordable and reliable water services to our customers to make sure we keep their lives flowing. For more information, visit nyamwater.com and follow New York American Water on Facebook and Twitter.



BASKETBALL GAMES COULD start on Feb. 8 in Bellmore-Merrick, according to new Covid-19 guidelines from Gov. Andrew Cuomo. Last year, John F. Kennedy High School senior Rachel Nossen, of Merrick, wrote an op-ed in The Cougar Crier, which called on the school community to end "gender marking" of its sports teams.

High-risk high school sports could begin Feb. 1

By TONY BELLISSIMO

tbellissimo@liherald.com

High-risk high school sports in New York state, such as basketball, football, wrestling, hockey, volleyball and competitive cheer, will be permitted to proceed beginning Feb. 1 as long as county health departments approve competitive play within its jurisdiction, Gov. Andrew Cuomo announced last Friday afternoon.

According to the updated state-issued Covid-19 guidelines, county health departments must consider three factors when making a determination on high-risk sports: local infection rates, the ability to monitor and enforce compliance and whether the U.K. variant of the coronavirus is present within the area.

The updated guidance reads: "Effective Feb. 1, 2021, participants in higher risk sports and recreation activities may partake in individual or distanced group training and organized no/low-contact group training and, further, may partake in other types of play, including competitions and tournaments, only as permitted by the respective local health authorities (i.e., county health departments)."

Section VIII Executive Director Pat Pizzarelli said "there's a chance" highrisk winter sports such as basketball, wrestling, hockey and competitive cheer can spring into action next month if the Nassau County Health Department gives the green light. If play is approved, basketball games will start Feb. 8th since six days of practice will be required.

"While this is certainly a step in the right direction, there are many questions that remain with regard to the development and implementation of a plan, approved by our local elected officials, that will enable 'high-risk' sports to resume safely," Bellmore-Merrick Central High School District's Athletics Director Eric Caballero wrote in a letter to parents.

"BMCHSD remains committed to providing interscholastic sports to our school community," he continued, "and will work closely with the Nassau County Department of Health and Section VIII to determine the safest course of action to make this a reality for our student-athletes."

"As per today's announcement by Gov. Cuomo, I've directed the Nassau County Health Department to work with school districts to safely resume school sports according to NYS guidance," County Executive Laura Curran said in a statement. "As Nassau County Executive, I've continued to advocate for the safe resumption of organized sports, as well as for keeping our businesses and schools open. For many, school sports are a path to promising academic and career opportunities. I'm excited to get our kids back on the fields, courts and ice rinks they love so much. Let's play ball!"

Andrew Garcia contributed to this story.



AN IMPORTANT WATER TREATMENT UPDATE FROM NEW YORK AMERICAN WATER

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New York State recently established new drinking water standards for emerging compounds, specifically 1,4-Dioxane, PFOA and PFOS. In preparation for the new standards, New York American Water proactively sampled all of our source water wells. Testing of Service Area 2: South Shore (aka: Merrick Operations District) produced sample results for 1,4-Dioxane above the State's new standard at our Seamans Neck Road facility in North Wantagh. This is the only location in Service Area 2: South Shore with detections of emerging compounds above the State's new standards. To address this, we are installing treatment to remove 1,4-Dioxane at our Seamans Neck Road facility.

LEARN MORE

Learn more about what this compliance deferral means, and the actions New York American Water continues to take to address emerging compounds. Visit **www.nyamwater.com/ emergingcompounds/seamansneck** or call our Customer Service Center at 1-877-426-6999 to obtain a paper copy of the deferral notification.



During pandemic, LICC hasn't missed a beat

CONTINUED FROM FRONT PAGE

retired in 2016. Her ability to understand and assist with their emotional problems — especially problems brought on by bullying — made her eager to join the center as a counselor, she said.

When Katz gets a call, she listens. "Sometimes that's all they need," she said. "People need to be heard — some have no one to talk to. Just to have somebody on the other end of the phone to listen to them and tell them it's OK to feel the way they feel, sometimes that's all they need."

Counselors also offer referrals when callers seek additional help. "There are some people who don't want to go to counseling, though — we are a nonthreatening alternative," Katz said.

LICC has also continued to operate Pride for Youth, which provides health services to young members of the LGBTQ+ community throughout the pandemic. Usual meetings have been moved to Zoom, and outreach programs have provided youth with essentials, such as food and in-home HIV tests, when in need.

"Sometimes you get off a call, and you think about it for hours or days," Katz said. "When someone is hurting, it hurts you. But on the flip side, there's no better feeling than hearing a client say, 'Thank you so much. I'm feeling so much better.""



Courtesy Town of Hempstead

A MOBILE COVID-19 testing and vaccination unit, a joint project of the Town of Hempstead and Mount Sinai South Nassau hospital in Oceanside, is now in the works. It is expected to be up and running within 60 days.

Town gears up for mobile Covid-19 unit in 60 days

Town of Hempstead officials recently approved nearly \$700,000 to develop a mobile Covid-19 testing and vaccination unit that will travel to many areas of the town that have been hit hardest during the coronavirus pandemic. The unit was developed in coordination with Mount Sinai South Nassau hospital.

Funding for the program comes through the federal CARES Act.

"We're proud to once again team up with Mount Sinai South Nassau to provide essential Covid-19 services to our residents," Hempstead Town Supervisor Don Clavin said, adding that he thanked U.S. Sen. Chuck Schumer with making the CARES Act funding available to the town. "We're very grateful to be partnering with the town on this initiative," MSSN President and CEO Richard Murphy said.

The mobile unit is expected to be up and running within 60 days, and will serve all areas of the town. Further information will be posted on the town website once the new program is fully operational.

In the meantime, Hempstead's drivethrough rapid-testing program continues to be offered at no charge to town residents. To make an appointment, call (516) 390-2888.

-Scott Brinton

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WE KEEP LIFE FLOWING[™]

Time to celebrate

Guest

Column

LINDA SAPADIN

Life is just one damned thing after another unless we take time out to recognize and celebrate the good events that happen between the hardships and hassles. This is true for our personal lives as well as our country's life.

A celebration is an acknowledgment, an honoring of an event. Last week, the swearing-in of our new President and Vice President was our most acclaimed

celebration. Many rejoiced. Some lamented. No matter, the celebration of the peaceful transition of power took place.

Can you imagine what would have been lost if we ignored this day? If the swearing-in took place in secret - without witnesses, without any assurance that it ever happened, without joys and smiles, without previous Presidents of both parties present to lend validity to the occasion?

Yes, we need celebrations. To acknowledge, appreciate and cherish the event. We

need them as a nation, and we need them as people. That's why we celebrate birthdays and anniversaries. That's why we celebrate national and religious holidays. If they're important to us, we don't let them pass without marking their significance.

Many of us, however, allow important moments to go unnoticed and uncelebrated. Such events, whether big or small, deserve to be recognized if they have meaning to us. A big, fancy occasion to mark the celebration is unnecessary. Indeed, you may not need to make the event public, but you do need to acknowledge and appreciate the event for your own self-worth. Neglecting to do so means that your accomplishment, achievement, success remain unnamed, unnoticed, unimportant. We might even say that it ceases to exist.

Here are two examples of personal events that call for celebrations:

John has a high pressured job and a demanding boss. On a typical day, he tolerates being spoken to disrespectfully, blamed for his boss's blunders. Yesterday, however, was different. John stood up for himself determined to

John stood up for himself, determined to stop the verbal abuse. When his boss finished his tirade, he said, "I don't deserve to be spoken to like that. When you can speak to me respectfully, you'll find me at my desk." Shaking in his boots, he quickly departed from his boss's office

velled at for a non-essential error, and

before anything more could be said.

An hour later, his boss came to his desk and offered an apology – a half-assed one – but still an apology. He accepted it. That evening, he toasted himself, "I did it!" He then shared his story with his wife, who promised that once Covid is no longer a threat, they'd go out to a fine restaurant to celebrate.

The day Doreen lost 10 pounds was a day worth celebrating. Not publicly, but privately. Though Doreen still wanted to lose another 10 pounds, she recognized

with joy that she was halfway there! What would she treat herself to? Not food but new clothes in a new size!

If you neglect to take time to celebrate your big and small achievements, everyday hassles and hardships become more prominent. So tonight, before your head hits the pillow, reflect on something personal worth celebrating. Create a blowout Zoom party for your achievement, if you wish, or launch simple words of praise for yourself. "You did it! – Good job – I'm proud of you!" Then smile, pat yourself on the back and get a good night's sleep. You've made your achievement a recognizable moment in your life.

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Linda Sapadin, Ph.D. is a psychologist, coach and author in private practice who specializes in helping people become the best they can be. You can reach her at LSapadin@DrSapadin.com. Visit her website at www.PsychWisdom.com.

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NEWYORK American Water



60 Brooklyn Avenue Merrick, NY 11566

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ATTACHMENT C

Water Quality Data



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

Client Sample ID.: N-10195

Lab No. : 70164939001

Type: Drinking Water Origin: Raw Well Routine

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

New York American Water - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To : Natasha Niola

 Federal ID:
 2902840

 Collected:
 03/08/2021 09:35 AM
 Point
 N-10195

 Received:
 03/08/2021 01:05 PM
 Location
 Jerusalem 5 Well

 Collected By
 CLIENT
 CLIENT
 Collected By
 CLIENT

Analytical Method: EPA 522	Prep Method: EPA 522				Prep Date: 03/16/2021 9:55 AM			
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
1,4-Dioxane (p-Dioxane)	0.14		1	ug/L	1	03/16/2021 11:37	001 AG2R1/2	
Surr: 1,4-Dioxane-d8 (S)	104%		1	%REC		03/16/2021 11:37	001 AG2R1/2	

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

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

Result(s) reported meet(s) NYS Regulatory Limit(s).

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

page 1 of 7

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.

5	
Pace Analytical®	

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 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

New York American Water - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

 Federal ID:
 2902840

 Collected:
 03/08/2021 10:20 AM
 Point
 N-08031

 Received:
 03/08/2021 01:05 PM
 Location
 Old Mill 1 Well

 Collected By
 CLIENT
 CLIENT
 Collected By
 CLIENT

Lab No. : 70164939002 Client Sample ID.: N-08031

Analytical Method:EPA 522		Prep Method:	EPA 522		Prep Date: 03/16/2021 9:55 AM			
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
1,4-Dioxane (p-Dioxane) Surr: 1,4-Dioxane-d8 (S)	0.024 103%		1 1	ug/L %REC	1	03/16/2021 11:56 03/16/2021 11:56	002 AG2R1/2 002 AG2R1/2	

Qualifiers:

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Client Sample ID.: N-09338

Lab No.: 70164939003

Type: Drinking Water Origin: Raw Well Routine

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New York American Water - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To : Natasha Niola

 Federal ID:
 2902840

 Collected:
 03/08/2021 11:10 AM
 Point
 N-09338

 Received:
 03/08/2021 01:05 PM
 Location
 Seamanneck 4 Well

 Collected By
 CLIENT
 CLIENT
 Collected By
 CLIENT

Analytical Method: EPA 522	Prep Method: EPA 522				Prep Dat	Prep Date: 03/16/2021 9:55 AM			
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:		
1,4-Dioxane (p-Dioxane)	1.7*		1	ug/L	1	03/17/2021 12:35	003 AG2R1/2		
Surr: 1,4-Dioxane-d8 (S)	105%		1	%REC		03/17/2021 12:35	003 AG2R1/2		

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

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

Result(s) reported meet(s) NYS Regulatory Limit(s).

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

page 3 of 7

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



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

Client Sample ID.: N-10863

Lab No. : 70164939004

Type: Drinking Water Origin: Raw Well Routine

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

New York American Water - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To : Natasha Niola

 Federal ID:
 2902840

 Collected:
 03/08/2021 12:45 PM
 Point
 N-10863

 Received:
 03/08/2021 01:05 PM
 Location
 Massapequa 8 Well

 Collected By
 CLIENT
 CLIENT
 Collected By
 CLIENT

Analytical Method:EPA 522		Prep Method:	EPA 522		Prep Date	Prep Date: 03/16/2021 9:55 AM			
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:		
1,4-Dioxane (p-Dioxane) Surr: 1,4-Dioxane-d8 (S)	<0.020 106%		1 1	ug/L %REC	1	03/17/2021 12:54 03/17/2021 12:54	004 AG2R1/2 004 AG2R1/2		

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

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

Result(s) reported meet(s) NYS Regulatory Limit(s).

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

page 4 of 7

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

WorkOrder :

70164939

Laboratory Certifications

Pace Analytical Services Long Island

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

	rem	□ NO VOC'S PRESERVED WITH HCI	Treatment Types AST - Air Stripper GAC - Granular Activated Charcoal N - Nitrate Removal Plant FE - Iron Removal Plant O - Other		Lab No.	00	200	003	hao		
	WELL RUN TO SYSTEM		OriginTreatment TypD- DistributionAST - Air StripperRW- Raw WellAST - Air StripperRW- Raw WellGAC - Granular AcTW- Treated WellNT- TankFEMW- Monitoring WellOI- InfluentOE- Effluent		Analysis	1,4-Dio xant	TJy-Dickane	I'4- Dioxan-	TJ4-DIOXANE		
ample Request Form PUBLIC WATER SUPPLIER	und Pro	12 °C 315/21	Purpose RO - Routine RE - Resample S - Special		Field Readings Cl ₂	4,9505	5,040	4,9 508	4,6435		
Sample Rec PUBLIC WATE	Collected By: John Accepted By:	Cooler Temp: 104	Sample Types PW - Potable Water GW - Groundwater SW - Surface Water WW - Waste Water AQ - Aqueous S - Soil		Origin Treatment Purpose	RW RÒ	RW RO	RW RO	RUN RO		
3 4939		Amonican water	11566 334335 53903840		Location	N-10/95	N-08031	N-09338	N-10195 19461		Ist poarter sampling
WO#: 70164939	Client Info:	Name or Code: N 222 York	Phone #: 316 A Attn: John UUNI Proj. # or (Name): Bill To: MCM (KC) Copies To:	Sample Info:	Bample Date/Time Sample Type	WY SEP SIE	38 1020 PW	318 1110 PW	3/8 LAYS PW 1		Remarks: 257 O

ıg

57	Sa	mple C	Condition	n Upon	Receint	#:70164	1939
/ Face Analytical®					Proje WU	# . / 010-	1000
/ accrimary toda	Client Na	me: NYAV	./		PM:	ISA Due	Date: 03/22/21
		NYAV	an EDOthor		•	NT: NYAW	
Courier:□Fed Ex□ UPS□ USPS ØClient		rciai LP	ace Llouiei		QLIL.		
Tracking #:	-	Coole int	oot. 🗆 Vod	Z No	1	emperature Blank Pr	esent: Yes No
Custody Seal on Cooler/Box Present:	es 🖉 No			or NU	Т	ype of Ice: Wet 🕑	None
Packing Material: 🗌 Bubble Wrap 🔲 Bubble	e Bags ∐4			5 5	2 10-21	amples on ice, cooling	process has begun
Thermometer Used: THOID		on Factor:	+0.0			ate/Time 5035A kits	placed in freezer
Cooler Temperature(°C):	_Cooler II	emperatu	re Correcte		0.6		
Temp should be above freezing to 6.0°C	,			Data and li	nitials of nors	on examining conten	ts: 2/8/2/JP
USDA Regulated Soil (🗹 N/A, water sample	ej)id samples orignate fi	rom a forgiga source
Did samples originate in a quarantine zone w	ithin the Ur	nited State	es: AL, AR, CA,	FL, GA, ID, L	A, MS, NC, L	no samples onynate n	uerto Rico]? Ves X No
we all out on no THE THE WA (shook mon)		INO			1	nciuding Hawaii anu Po	
If Yes to either question, fill out a Regulat	ted Soil Ch	ecklist (F	-LI-C-010) ar	nd include v	with SCUR/CU	COMMENTS:	
				1		COMMENTS.	
Chain of Custody Present:	Pres			l. 0			
Chain of Custody Filled Out:	Ves	□No		2.			
Chain of Custody Relinquished:	Ø Yes	⊡No		3.			
Sampler Name & Signature on COC:	Aves	⊡No	DN/A	4.			
Samples Arrived within Hold Time:	ØYes	⊡No		5.			
Short Hold Time Analysis (<72hr):	⊡Yes	ZNO		6.			
Rush Turn Around Time Requested:	□Yes	17No		7. 8.			
Sufficient Volume: (Triple volume provided for	or ØYes						
Correct Containers Used:	ZYes	⊡No		9.			
-Pace Containers Used:	Z Yes	⊡No		10.			
Containers Intact:	Ves		-N/A	11.	Note if sedim	ent is visible in the dis	solved container.
Filtered volume received for Dissolved tests	⊡Yes	□No			below.		
Sample Labels match COC:	- Mes	M o		12. Sec	Delow.	e.	<i>i</i> = 1
-Includes date/time/ID, Matrix: SL(W)	UIL		ZÍN/A	13.	□ HNO3	□H ₂ SO ₄ □NaOH	
All containers needing preservation have be	en⊡Yes	⊡No	ZIN/A	15.			
checked?							
pH paper Lot #	nd to he			Sample #			
All containers needing preservation are fou in compliance with method recommendation	na to be nn?						
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide,	□Yes	⊡No					
NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and	Grease					(
DR0/8015 (water).	1010030,			Initial whe	en completed:	Lot # of added	Date/Time preservative
Per Method, VOA pH is checked after analys	sis					preservative:	added:
Samples checked for dechlorination:	□Yes	⊡No	ON/A	14.			
KI starch test strips Lot #			1				
Residual chlorine strips Lot #					Positive for Re	s. Chlorine? Y N	
SM 4500 CN samples checked for sulfide?	⊡Yes	⊡No	CIN/A	15.			
Lead Acetate Strips Lot #					-		
Headspace in VOA Vials (>6mm):	⊡Yes	⊡No	CN/A	16.			
Trip Blank Present:	⊡Yes	⊡No	DN/A	17.			
Trip Blank Custody Seals Present	⊡Yes	⊡No	CN/A				
Pace Trip Blank Lot # (if applicable):			1				
Client Notification/ Resolution:				Field Data	a Required?	Y/N	
Person Contacted:	NN				Date/Time:	3/8/21 034	
	reads		10195		:45 E	and the second se	ads
N-10863 @ 12:45			uken	from	bottle	per cl.	ent
10.10.00						1	



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 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

New York American Water - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To : Natasha Niola

 Federal ID:
 2902840

 Collected:
 03/04/2021 10:30 AM
 Point
 N-14347

 Received:
 03/04/2021 12:47 PM
 Location
 Seaman Neck #3

 Collected By
 CLIENT
 CLIENT
 Collected By
 CLIENT

Client Sample ID.: N-14347

Lab No. : 70164634001

Analytical Method: EPA 522		Prep Method:	EPA 522		Prep Date: 03/12/2021 12:46			
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
1,4-Dioxane (p-Dioxane)	1.7*		1	ug/L	1	03/13/2021 1:34 AM	001 AG2R1/2	
Surr: 1,4-Dioxane-d8 (S)	101%		1	%REC		03/13/2021 1:34 AM	001 AG2R1/2	

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

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

Result(s) reported meet(s) NYS Regulatory Limit(s).

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

page 1 of 4

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

WorkOrder :

70164634

Laboratory Certifications

Pace Analytical Services Long Island

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

MO#:70164634 MIH:70164634 MIH:70164634 MIH:70164634 MIH:70164634 MIH:70164634 MIH:70164634 MIH:70164634	Treatment Types AST - Air Stripper GAC - Granular Activated Charcoal N - Nitrate Removal Plant FE - Iron Removal Plant O - Other	Lab No.	and	
	OriginTreatmentD- DistributionAST - ARW- Rw WellAST - GAC - GRW- Treated WellNT- TankFEMW- Monitoring WellOI- InfluentE- Effluent	Analysis	2st quarter 2-4 DioKamp	
ble Request Form LIC WATER SUPPLIER Date: 3/3/3/ d By: 3/3/3/ benp: 14. 1 °C (2)	Purpose RO - Routine RE - Resample S - Special	Field Readings Cl ₂ pH/Temp	M4 50F	
Sample Req PUBLIC WATE Date: 34 Collected By: 44.4	Sample Types PW - Potable Water GW - Groundwater SW - Surface Water WW - Waste Water AQ - Aqueous S - Soil	Origin Treatment Purpose	8 8 8 8	
., Melville, NY 11747 (631) 420-8436	Subsection Sam	Location	N 14347 5W3 R	
Pace Analytical www.pacelabs.com 575 Broad Hollow Rd (631) 694-3040 Fax: (631) 694-3040 Fax:	el as	Sample Type	72 0 G	
(631) 6 Marrie (631) 6 Marrie or Code: New Ser	Phone #:Attn: _Attn: _Attn	Collected:	3)4 1 030 Remarks:	

») ·	Sai	mple (Conditio	n Upon	Rece	WO#	:701	.64634	
Pace Analytical"	Client Na				Project	PM: JSA		Due Date: 03/18/	21
	N	YAL)			CLIENT:			
Courier: Fed Ex UPS USPS	Comme	rcial 🗆	ace 🗆 Other			CLIENT.			
						-			
Tracking #: Custody Seal on Cooler/Box Present: □Ye	es Z No	Seals in	tact: 🗌 Yesj	No				k Present: 🛛 YesZ No	1
Packing Material: Bubble Wrap D Bubble	Bags D12	iploc A	None 🖂 Oth	er		Type of	Ice: Wet	Blue None	
Thermometer Used: TH091	Correctio	n Factor	+0.0	0	and a coart	Sample	s on ice, coo	ling process has begun	
Cooler Temperature(°C): <u>14.9</u>	Cooler Te	emperatu	re Correcte	d(°C): /	14.9	Date/T	ime 5035A I	kits placed in freezer	
Temp should be above freezing to 6.0°C								11-11	11-1
USDA Regulated Soil (\Box N/A, water sample	e)			Date and	Initials of	person exa	mining cor	itents: <u>A 3/4/</u>	101
Did samples originate in a quarantine zone w	ithin the U	nited State	s al ar ca	FL. GA. ID.	LA, MS, NC	Ind san	nnies origna	te irom a luieiun source	
where an an an TH TY will [sheek mon]	O I Voc	1 INO				moluum	ng Hawaii an	d Puerto Rico)? 🗆 Yes 🗴) No
NM, NY, OK, OR, SC, TN, TX, or VA (check map) If Yes to either question, fill out a Regula	tod Soil Ch	erklist (F	-11-C-010) a	nd include	e with SCU	R/COC pape	erwork.		
If Yes to either question, illi out a Regula	teu son on	connoc p					COMMENTS:		
Chain of Custody Present:	ZYes	⊡No		1.					
Chain of Custody Filled Out:	∕ ØYes	□No		2.					
Chain of Custody Relinquished:	ZYes	⊡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	Ø₩o		6.					
Rush Turn Around Time Requested:	⊡Yes	[2No		7,					
Sufficient Volume: (Triple volume provided for	or Dives	⊡No		8.					
Correct Containers Used:	AYes	⊡No		9.					
-Pace Containers Used:	ZYes	⊡No							
Containers Intact:	EYes	⊡No		10.				It I decentainor	
Filtered volume received for Dissolved tests	r⊡Yes	⊡No	/ÓN/A	11.	Note if :	sediment is v	visible in the	dissolved container.	
Sample Labels match COC:	,⊒¥es	□No		12.					
-Includes date/time/ID, Matrix: SL/WI	j OIL						0 10 10	aOH 🗆 HCI	
All containers needing preservation have be	een⊡Yes	⊡No	φŃ/A	13.	\Box HNO ₃	□H₂S	0₄ □N		
checked?									
pH paper Lot #	1.1			Sample	#				
All containers needing preservation are fou	ind to de			Joanpio					
in compliance with method recommendation	on?		ZN/A						
$(HNO_3, H_2SO_4, HCI, NaOH>9 Sulfide,$	⊡Yes	⊡No	ZIN/A						1
NAOH>12 Cyanide)	Creeco								
Exceptions: VOA, Coliform, TOC/DOC, Oil and	i Grease,			Initial w	nen comple	eted: Lot #	of added	Date/Time preser	vative
DRO/8015 (water).	eie						rvative:	added:	
Per Method, VOA pH is checked after analy	SIS □Yes	⊡No	ĢN∕A	14.		L.			
Samples checked for dechlorination:			1						
KI starch test strips Lot #					Positive	for Res. Chlo	rine? Y N		
Residual chlorine strips Lot # SM 4500 CN samples checked for sulfide?	⊡Yes	⊡No	⊠N/A	15.					
	L163		T and a		2				
Lead Acetate Strips Lot # Headspace in VOA Vials (>6mm):	⊡Yes	⊡No	PAN/A	16.					
Trip Blank Present:	□Yes		ZN/A	17.					
Trip Blank Present Trip Blank Custody Seals Present	⊡Yes		ZN/A	j.					
Pace Trip Blank Lot # (if applicable):			/						
Client Notification/ Resolution:				Field Da	ata Require	ed?	Y /	Ν	
Person Contacted:					Date/1	Time:			
Comments/ Resolution:									

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

ENV-FRM-MELV-0024 00

Pace Analy	tical®

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

Client Sample ID.: N-09338

Lab No. : 70160514001

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

Point

N-09338

Location Seamanneck 4 Well

New York American Water - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To : Mike Nofi

Federal ID : 2902840

Collected : 01/26/2021 10:30 AM

01/26/2021 12:11 PM

Received :

Collected By CLIENT

Sample Comments:

RUN TO WASTE

Analytical Method: EPA 522	Prep Method: EPA 522				Prep Date		
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,4-Dioxane (p-Dioxane) Surr: 1,4-Dioxane-d8 (S)	1.3 * 107%		1 1	ug/L %REC	1	01/28/2021 8:55 PM 01/28/2021 8:55 PM	001 AG2R1/2 001 AG2R1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

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

Result(s) reported meet(s) NYS Regulatory Limit(s).

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

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.

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page 1 of 5



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

Client Sample ID.: N-14347

Lab No. : 70160514002

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

New York American Water - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To : Mike Nofi

 Federal ID :
 2902840

 Collected :
 01/26/2021 10:50 AM
 Point
 N-14347

 Received :
 01/26/2021 12:11 PM
 Location
 Seaman Neck #3

 Collected By
 CLIENT
 CLIENT
 Collected By
 CLIENT

Analytical Method:EPA 522	Prep Method: EPA 522				Prep Date: 01/28/2021 12:04			
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:	
1,4-Dioxane (p-Dioxane)	2.0*		1	ug/L	1	01/29/2021 8:42 AM	002 AG2R1/2	
Surr: 1,4-Dioxane-d8 (S)	107%		1	%REC		01/29/2021 8:42 AM	002 AG2R1/2	

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

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

Result(s) reported meet(s) NYS Regulatory Limit(s).

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

Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

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page 2 of 5

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WorkOrder :

70160514

Laboratory Certifications

Pace Analytical Services Long Island

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

1998 N 1434P SERVED WITH HCI	GAC - Granular Activated Charcoal N - Nitrate Removal Plant FE - Iron Removal Plant O - Other	Lab No. 00	200			
	Nell Vell	Analysis DIOXQNC				
Origin Do - Distr			d H-1			
	S - Special Field Beadings	Cl2 pH/Temp				
Sample Req PUBLIC WATE Date: 120 Collected By: 120 Accepted By: 13.5 Cooler Temp: 13.5		Type Purpose	Re			
S C C C	N N N N N N N N N N N N N N N N N N N	Origin RV	RW			
10#: 70160514 10#: 70160514 10160514 11111111111111111111111111111111111	12264	Location N - 09338	N-14347			
Toteof Mo#: 70160 Poleosita Poleosit	Mc/UDPS	SG PW	MJ 2001			
	Attn:	Collected:	1/26 100		Remarks:	

Proce Analytical Client Name: Project Courier:::::::::::::::::::::::::::::::::::		Sa	mple	Conditio	on Upor	Rece	WO#:701	60514
Courier: Fel EX: USD	Pace Analytical	Client N	amae			Project	BM	
Courter: Fet Bet: USPS Cleint Commercial Preace Other Temporature Not Tracking #: Texting #: Decision Soalis intact: Yes Not Terremoter Bubble Bags Anice Other Temporature Dire Temporature Dire Not Terremoter Bubble Bags Anice Other Temporature Dire Temporature Dire Not Terremoter Bubble Bags Color Temperature Dire Dire <td< td=""><td>1-</td><td>GIEIRIN</td><td>N/YA</td><td>4/</td><td></td><td>110,000</td><td></td><td>ue Date: 02/04/21</td></td<>	1-	GIEIRIN	N/YA	4/		110,000		ue Date: 02/04/21
Tracking #:	Courier - Fed Ex 11PS 11SPS CAClient				er		Constant in the below	
Custady Seal on Coller/Kox Present: □ 'veg' No Seal in Itat:: □ 'veg' No Temperature Isak Present:: □ 'veg' No Packing Material: □ Bubble Wrap Bubble Bags □ Ziploo _Mone Other Other Type of Cer. Wet ① None Type of Cer. Wet ① None Temp Shult be above freazing to 50°C Cooler Temperature IC: □ . 0.2. Date and Initials of person examing oncounts: 0.2. Date and Initial								
Packing Material: Dubble Wrap Dubble Bags Direr Type of fice: Wrat Display file: Direr Type of fice: Wrat Display file: Direr Direr Samples on los: cooling process has begun Direr Direr Samples on los: cooling process has begun Direr Samples on los: cooling process has begun Direr Direr Direr B.G Direr Samples on los: cooling process has begun Direr Direr Direr B.G Direr Samples on los: cooling process has begun Direr Direr Direr B.G Direr Samples on los: cooling process has begun Direr <		No.	Seals in	itact: 🗆 Ye	s No		Temperature Blank Pi	resent: Yes No
Thermometer Used: Description Factor: -0.2 Samples ruis (c.colling process has segun Coolar Temperature (CT) 13.6 Date 7 memory of the source reacing to 50.°C Date 7 memory of the source reacing to 50.°C USDA Regulated Scill (Fundameter Science) Date 7 memory of the source reacing to 50.°C Date and Initials of person examining contents; Dedd 17 memory of the source including Hawiliand Puero Ricol? Did samples originate in a quarantine zone within the United Status: AL, AR, CA, FL, GA, ID, LA, MS, NC, Did samples originate frage source including Hawiliand Puero Ricol? No NN, YC, KD, SZ, YC, YL, YC of VL Gene Concervent? Press No 1 Chain of Clustody Present: Press CNO 1 Chain of Clustody Present: Press CNO 2 Chain of Clustody Present: Press CNO 3 Samples Arrival within Hold Time Press CNO 3 Samples Arrival within Hold Time Press CNO 3 Straft Hold Time Analysis Fr2thrip: CMS R. Condemeter Signature on COC: Commere Signature on COC: Comemory of Signature on COC: Comemory of S								
Cooler Temperature (Concentrating Concerted (C): IS.C. Date/Time 5035A kits placed in freezer Temp should be above freezing to 5.0°C Date and Initials of person examining contents: /pa/21_JC Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, OK, OK, SC, TN, TV, or VA (check map) Did samples originate from a foreign source including Hawaii and Puerto Ricol? Ves_C No Pres to either question, fill out a Regulated Soil CheckIst (F-LI-C-010) and include with SCUR/OC paperwork. COMMENTS: Comments: Pres/C No Chain of Custody Present: /fes CNo 1. COMMENTS: Comments: Pres/C No 1. Chain of Custody Relinquished: /fes CNo 2. Comments: Pres/C No 1. Sampler Name & Signature on COC: /fes CNo 3. Sampler Name & Signature on COC: Sampler Name & Signature on COC: Fes CNo 3. Sampler Name & Signature on COC: /fes CNo 1. Note if sediment is visible in the dissolved containor. Sampler Name & Signature on COC: /fes CNo 10. Note if sediment is visible in the dissolved containor. Sample Labels math COC: /fes <		-				ſ	· · · · · · · · · · · · · · · · · · ·	
Temp should be above freezing to 50°C USDA Regulated Soil [20/WA, weter sample] Date and Initials of person examining contents. //40/A1 JP Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, WO, CO, SC, TN, TA, or VA (check map). I Yes INo Did samples originate from a foreign source including Hawaii and Puerto Ricol? Ves No If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC papervork. COMMENTS: Chain of Custody Present: ///es No Chain of Custody Present: //es No Chain of Custody Relinquishene: //es No 1. Chain of Custody Relinquishene: //es No 1. Sampler Name & Signature on COC. //es CNo 5. Sont: Hold Time Analysis (172hr)1: Cres ZMo 6. Kush Turn Around Time Requested: //es CNo 7. Sufficient Volume: (Friple volume provided for CMs CNo 8.					ed(°C)-	B.C.	/	-
USDA Regulated Soil [///A weter sample] Date and Initials of person examining contents: //26/21 3/2 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, Did sampling contents: //26/21 3/2 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, Did samples originate from a foreign source including Hawaii and Puerto Ricol? Used/ No If Yes to either question, fill out a Regulated Soil Checklist [F-LI-C-010] and include with SCUR/00C paperwork. COMMENTS: Chain of Custody Filed Out Øres No 2. Chain of Custody Relinquished: Øres No 3. Sampler Name & Signature on COC: Øres INo 3. Sampler Name & Signature on COC: Øres INo 5. Sort Hold Time Analysis [-271]: CTVes Ørio 6. Correct Containers Used: Øres INo 9. -Pace Containers Used: Øres INo 1. Containers Index/Itme/ID, Markix Øres INo 10. Fittered volume received for Dissolved tests Ores INo 11. Outaniers Index/Itme/ID, Markix Øres INo 12. Included and Date/Time preservation are found to be an oroninone dution?			chiporate			12.10		piddod in noozo
Did samples originate in a quarantine zone within the United States: AI, AR, CA, FL, GA, ID, LA, MS, NC, Did samples originate from a foreign source including Hawaii and Puerto Rico)? □ Ves No includies with SCUR/COC paperwork. Comments:	· ·)			Date and	Initials of n	erson examining conten	ts: 1/26/21 JP
NM, NY, OK, DR, SC, TN, TX, or VA (check map)? □ Yes No including Hawaii and Puerta Rico)? □ Yes No If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paper work.								
If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/C0C paperwork. CDMMENTS: Chain of Custody Present: CDMMENTS: Chain of Custody Relinquished: CDMMENTS: Chain of Custody Relinquished: CDMMENTS: Chain of Custody Relinquished: CDMMENTS: CD				es: AL, AR, CA	A, FL, GA, ID, 1	_a, ms, nu,		
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Samples Arrived within Hold Time: Image: Proceeding of the second of	A TALE AND A TALE A TAL							
Short Hold Time Analysis (=72hr): Yes Ao 6. Rush Turn Around Time Requested: Yes Ao 7. Sufficient Volume: [Triple volume provided forYes No 8. Correct Containers Used: Yes No 9.		-		LIN/A				
Rush Turn Around Time Requested: IYes Image: Control of the second		4						
Sufficient Volume: [Triple volume provided for pres INo 8. Correct Containers Used: Image Image Image -Pace Containers Used: Image Image Image Containers Iused: Image Image Image Image Containers Iused: Image Image Image Image Image Containers Insex: Image Image Image Image Image Image Containers Insex: Image								
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Containers Intact: Pres IN0 10. Filtered volume received for Dissolved tests Iffes IN0 I1. Note if sediment is visible in the dissolved container. Sample Labels match COC: Iffes Iffes Includes date/time/ID,Matrix: Iffes Includes date/time/ID,Matrix: Iffes Includes date/time/ID,Matrix: Iffes Iffes Includes date/time/ID,Matrix: Iffes					9.			
Filtered volume received for Dissolved tests IVes					10			
Sample Labels match COC: □Yes □No 12. Includes date/time/ID, Matrix: Strop OIL 13. □ HNO3 □ H₂SO4 □ NaOH □ HCI All containers needing preservation have been □Yes □No tN/A 13. □ HNO3 □ H₂SO4 □ NaOH □ HCI All containers needing preservation are found to be in compliance with method recommendation? NA Sample # Sample sceptions: V0A, Coliform, TOC/DOC, Oil and Grease, NA NA NA Sample sceptions: V0A, Coliform, TOC/DOC, Oil and Grease, NA NA Initial when completed: Lot # of added preservative added: Date/Time preservative added: Samples checked for dechlorination: □Yes □No tN/A 14. Samples checked for sulfide? Initial when completed: Lot # of added preservative added: Samples checked for sulfide? Initial when completed: Lot # of added preservative added: Initial when completed: Lot # of added preservative added: Initial when completed: Lot # of added preservative added: Initial when completed: Initial when completed: Lot # of added preservative added: Initial when completed: Lot #						Note if end	imant in visible in the dise	alved container
-Includes date/time/ID_Matrix: SLCOO OL All containers needing preservation have been □Yes □No IN/A All containers needing preservation are found to be Is □HNUA3 In compliance with method recommendation? □N/A Sample # (HNO3, H2S04, HCI, NaOH>9 Sulfide, □Yes □No IN/A NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, Initial when completed: Lot # of added Date/Time preservative Per Method, VOA pH is checked after analysis □No IN/A 14. Initial when completed: Lot # of added Date/Time preservative Sample schecked for dechlorination: □Yes □No IN/A 14. Initial when completed: Lot # of added Date/Time preservative Samples checked for dechlorination: □Yes □No IN/A 14. Initial when completed: Lot # of added Date/Time preservative Samples checked for dechlorination: □Yes □No IN/A 14. Is. Is. Is. SM 4500 CN samples checked for sulfide? □Yes □No In/A 15. Is. Is. Lead Acetate Strips Lot # □Yes				Lpr/A		NOLE IL SEG	iment is visible in the diss	
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All containes needing preservation are found to be Sample # All containers needing preservation are found to be Sample # In compliance with method recommendation? N/A (HNOs, H ₂ SO ₄ , HCl, NaOH>9 Sulfide, Yes DRO/8015 [water). Initial when completed: Lot # of added Per Method, VOA pH is checked after analysis Initial when completed: Lot # of added Samples checked for dechlorination: IVes IN/A Per Method, VOA pH is checked for sulfide? IVes IN/A Samples checked for dechlorination: IVes IN/A Samples checked for sulfide? IVes IN/A If ip Blank Present: IVes IN/A Trip Blank Lot # (if applicable): IVes IN/A Pace Trip Blank Lot # (if applicable): IVes IVes If ield Data Required? Y Y <td></td> <td></td> <td></td> <td>m-1A1 / A</td> <td>17</td> <td></td> <td></td> <td></td>				m-1A1 / A	17			
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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

Client Sample ID.: N-07407

Lab No. : 70165751001

Type: Drinking Water Origin: Raw Well Routine

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

New York American Water - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

 Federal ID :
 2902840

 Collected :
 03/15/2021 10:30 AM
 Point
 N-07407

 Received :
 03/15/2021 02:32 PM
 Location
 Jefferson 11 Well

 Collected By
 CLIENT
 CLIENT
 Collected By
 CLIENT

Analytical Method:EPA 522	Prep Method: EPA 522				Prep Dat	Prep Date: 03/18/2021 12:39			
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:		
1,4-Dioxane (p-Dioxane)	1.0		1	ug/L	1	03/20/2021 3:31 AM	001 AG2R1/2		
Surr: 1,4-Dioxane-d8 (S)	109%		1	%REC		03/20/2021 3:31 AM	001 AG2R1/2		

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

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

Result(s) reported meet(s) NYS Regulatory Limit(s).

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

page 1 of 6

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



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

Client Sample ID.: N-08253

Lab No. : 70165751002

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

Point

N-08253

Location Jefferson 12 Well

New York American Water - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID: 2902840

Collected : 03/15/2021 10:45 AM

Received : 03/15/2021 02:32 PM

Collected By CLIENT

Sample Comments:

RUN TO WASTE

Analytical Method:EPA 522	Prep Method: EPA 522			Prep Date			
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	0.23		1	ug/L	1	03/20/2021 3:50 AM	002 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	104%		1	%REC		03/20/2021 3:50 AM	002 AG2R1/2

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

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

Result(s) reported meet(s) NYS Regulatory Limit(s).

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

page 2 of 6

Jennifer Aracri Test results meet the requirements of NELAC unless otherwise noted.



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

Lab No. : 70165751003

Client Sample ID.: GAC-3S/4S

Type: Drinking Water Origin: Raw Well Routine

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

New York American Water - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID :2902840Collected :03/15/2021 12:25 PMPointGAC-3S/4SReceived :03/15/2021 02:32 PMLocationSeamanneck Wells 3/4Collected ByCLIENT

Analytical Method:EPA 522		Prep Method: EPA 522				Prep Date: 03/18/2021 12:39			
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:		
1,4-Dioxane (p-Dioxane)	1.9*		1	ug/L	1	03/20/2021 4:09 AM	003 AG2R1/2		
Surr: 1,4-Dioxane-d8 (S)	107%		1	%REC		03/20/2021 4:09 AM	003 AG2R1/2		

Qualifiers:

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

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

Result(s) reported meet(s) NYS Regulatory Limit(s).

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

page 3 of 6

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

WorkOrder :

70165751

Laboratory Certifications

Pace Analytical Services Long Island

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

WELL OFF WELL OFF WELL RUN YES Distribution Faw Well Treated Well	T - Tank FE - Iron Removal Plant MW Monitoring Well O - Other I - Influent O - Other E - Effluent Analysis Lab No.	INC RUNT 11 RUNT 11 RUNT	
Sample Request Form PUBLIC WATER SUPPLIER Date: 345/21 Collected By: 79h DVD Accepted By: 79h DVD Accepted By: 90 0 Cooler Temp: 8 0 Cooler Te	 Waste Water Aqueous Soil Soil Field Readings Type Cl2 pH/Temp 	All Marken and All All All All All All All All All Al	Srigmes 1
MO# : 70165751 MO# : 70165751 MINININI MINININI Name or Code: W-two Work American June Name or Code: W-two Work American June Name or Code: W-two Work American June Address: 60 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 60 61 4 yr Mark American June Netro Silo 33 4 3 5 Address: 60 60 61 4 4 7 6 Address: 60 60 60 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Bill To: APARA CILOR 2902890 Copies To:	Type Type VS PW W- 07407 VS PW W- 08753 PM 0-08753 PM 0-08753	Remarks: ISt QUANER SAM

page 5 of 6

57	Sa	mple	Conditio	on Upon	Recr	WO#:7016	5751
/ Pace Analytical"	Olionet N				Projec		Date: 03/29/21
	Client N	ame: NAV)		Projec	C.U. AAAA	Date. Ver Lor
				or.		CLIENT: NYAW	
Courier: Fed Ex UPS USPS Client	Licomm h-	ercial 🗀		51			
Tracking #: / Pl		Sople in	staat: Ve	ST No		Temperature Blank Pr	esent: Yes A No
Custody Seal on Cooler/Box Present: Ye	IS NO NU	Jedis II		hor		Type of Ice: Wet	
Packing Material: Bubble Wrap D Bubble	Bays M	ion Facto	INUTE [] UT f: +0 ,			Samples on ice, cooling	
Thermometer Used: TH091			ure Correct		1.9	Date/Time 5035A kits	
Cooler Temperature(°C): 13 4	- Looler	emperat					
Temp should be above freezing to 6.0°C	1			Data and h	nitiale o	of person examining conten	ts. K.W 3/15/2
USDA Regulated Soil (🖂 N/A, water sample						Did complex orignets fr	rom a faraign source
Did samples originate in a quarantine zone w	ithin the l	Inited Stat	es: AL, AR, CA	a, fl, ga, id, l	a, ms, ni		source Rico Ves X No
NM, NY, OK, OR, SC, TN, TX, or VA (check map)?	> ∟Ye	s □No				Including Hawaii and Pu	
If Yes to either question, fill out a Regulat	ed Soil Cl	necklist [I	LI-C-U1U) a	and include	with SU	COMMENTS:	
				1		COMMENTS.	
Chain of Custody Present:	PYes			1.			
Chain of Custody Filled Out:	⊠Yes			2.	-		
Chain of Custody Relinquished:	,ØVes	⊡No		3.			
Sampler Name & Signature on COC:	Aves		⊡N/A	4. 5.			
Samples Arrived within Hold Time:	ØYes	□No		б.			
Short Hold Time Analysis (<72hr):	□Yes	ZNO		0.			
Rush Turn Around Time Requested:	□Yes	ZNO		8.			
Sufficient Volume: (Triple volume provided fo		DNO		9.			
Correct Containers Used:	Yes	⊡No		9.			
-Pace Containers Used:	ZYes			10.			
Containers Intact:	Z Yes			11.	Noto if	sediment is visible in the diss	olved container
Filtered volume received for Dissolved tests	TYes		_MN/A	12.	NOTE II	Sediment is visible in the disc	
Sample Labels match COC:	ØYes	⊡No		12.			
-Includes date/time/ID, Matrix: SL (W)	UIL		ZN/A	13.	HNO:	3 □ H ₂ SO ₄ □ NaOH	
All containers needing preservation have bee	en Lives	⊡No	ZN/A	10.		3 112004 111001	
checked?							
pH paper Lot # All containers needing preservation are four	nd to he			Sample #			
in compliance with method recommendation			1				
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide,	 ⊡Yes	⊡No	EN/A				
NAOH>12 Cyanide)	2.00		1				
Exceptions: VOA, Coliform, TOC/DOC, Oil and	Grease.						
DR0/8015 (water).	010000			Initial whe	n compl	eted: Lot # of added	Date/Time preservative
Per Method, VOA pH is checked after analysi	S					preservative:	added:
Samples checked for dechlorination:	⊡Yes	⊡No	ZN/A	14.			
KI starch test strips Lot #			/				
Residual chlorine strips Lot #			÷	F	Positive	for Res. Chlorine? Y N	
SM 4500 CN samples checked for sulfide?	⊡Yes	⊡No	ZN/A	15.			
Lead Acetate Strips Lot #							
Headspace in VOA Vials (>6mm):	⊡Yes	⊡No	EN/A	16.			
Trip Blank Present:	⊡Yes	⊡No	EN/A	17.			
Trip Blank Custody Seals Present	⊡Yes	⊡No	EN/A				
Pace Trip Blank Lot # (if applicable):			17				
Client Notification/ Resolution:				Field Data	Require	ed? Y/N	
Person Contacted:					Date/1	fime:	
Comments/ Resolution:							

[•] PM (Project Manager) review is documented electronically in LIMS.