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July 10, 2023

Liberty Utilities (New York Water) Corporation – Merrick Operations District PWS ID No. NY2902840 MCL Deferral for 1,4-Dioxane Quarterly Report – Second Quarter 2023

Introduction

On behalf of Liberty Utilities (New York Water) Corporation (Liberty), D&B Engineers and Architects (D&B) has prepared this document in accordance with the requirements of the New York State Department of Health (NYSDOH) for public water suppliers who have been granted deferrals from maximum contaminant level (MCL) violations for 1,4-Dioxane. Liberty's Merrick Operations District was granted an MCL deferral for 1,4-Dioxane in 2020 due to its proactive efforts toward the implementation of treatment for this compound.

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

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

D&B Engineers and Architects

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Liberty's goal, as always, is to provide an adequate supply of potable water to its consumers and it has done everything in its ability to move forward on the treatment project to further that goal and meet consumer demands. These impacts of the last three years are expected to continue for the foreseeable future and will most likely affect the ability of Liberty to conform to the project schedule outlined in the original deferral request, even with the deferral renewal. In particular, the supply chain difficulties have impacted all facets of construction. The most notable delays are related to motor starters, transfer switches, emergency generators, and controls equipment which now require more than a year to accomplish submittal approvals, fabrication, and delivery to a project site. In some cases, the delivery date for this critical equipment is still unknown as the contractors and equipment vendors are experiencing labor shortages and cannot predict material availability.

In light of the ongoing supply chain issues and other extenuating circumstances as mentioned above, Liberty will be submitting a request for an exemption to the NYSDOH under Part 5-1.92 of the New York State Sanitary Code. The intent of this exemption will be to extend the compliance deadline an additional year to reflect the hardship that these delays have had upon the project completion schedule. In the event that the exemption is not granted, Liberty will pursue an alternate means of ensuring its customers have access to sufficient clean water.

The enclosed is a report describing Liberty's progress towards maintaining the highest quality of water for the customers in the Merrick 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

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

At this time, Liberty has secured the funding for the project and construction has commenced in the first quarter of 2023. As previously mentioned, regulatory approval of the project has been received and it is anticipated that the advanced oxidation process (AOP) treatment system construction will be complete and will be placed into service in the second quarter of 2024. The Iron Removal Facility (IRF) improvements project, currently on-going at the site, which is required for efficient AOP treatment operation, is in construction and iron media replacement has been completed and approved by the Nassau County Department of Health for placement into service. Miscellaneous other improvements at the site included in this project are on-going and will be completed by the third quarter of 2023. The booster plant projects that will support the pressure fluctuations in the Seamans Neck pressure zone while the plant is out of service are in construction. The request for a land easement from NYS Parks, Recreation, and Historic Preservation to accommodate one of the booster plants is pending.

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Public Notification

Public notification regarding the presence and regulation of emerging compounds, as well as the deferral, was included in the former New York American Water (NYAW) 2020 Annual Water Quality Report (AWQR)/Consumer Confidence Report released in May 2021, posted on the former NYAW website at libertyutilities.com and publicized via newspaper ads and bill insert. The most recent 2022 AWQR specific to the Merrick Operations District provides public notification of the deferral as well and is available at https://new-yorkwater.libertyutilities.com/uploads/Merrick CCR.pdf.

In addition, Liberty has uploaded this quarterly report to its website at <u>https://new-york-water.libertyutilities.com/all/residential/safety/seamans-neck-public-notification.html</u>.

Documentation of the public notification is contained in Attachment B.

Analytical Sampling

Sample results for the wells for which deferrals were granted (Seamans Neck Wells 3A and 4 and Jefferson Street Well 11), taken during the second quarter of 2023, are contained in the table below. The 1,4-Dioxane levels for the Jefferson Street Well 11 in the first quarter 2022 were 0.023 micrograms per Liter (ug/L) and, in the second quarter 2022, first quarter 2023, and second quarter 2023, were non-detectable levels. The sampling at Jefferson Street Well 11 shows consistent 1,4-Dioxane results below the MCL. Full laboratory reports for each sample are contained in Attachment C.

Merric	Merrick Ops District (PWS No. NY2902840)					
Location	Well ID No.	Date Sampled	Lab Utilized	1,4-Dioxane (ug/L)		
Jefferson Street Well 11	N-07407	04/13/2023	Pace	ND		
Seamans Neck Wells 3A and 4 GAC	GAC for N-14347 and N-09338	04/28/2023	Pace	1.6		
Seamans Neck Well 4	N-09338	05/11/2023	Pace	1.6		
Seamans Neck Well 3A	N-14347	05/24/2023	Pace	2.2		

Second Quarter 2023 1,4-Dioxane Water Quality Monitoring Results

ND – Not Detected

D&B Engineers and Architects

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Conclusion

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

Should you have any questions, please contact the undersigned at (516) 364-9890, Ext. 3401, or visit the website at <u>https://libertyutilities.com/</u>.

Very truly yours,

ALLSL

Philip Sachs, P.E. Vice President

PRS/LOt/kb Enclosures cc: K. Wheeler (NYSDOH) B. Rogers (NYSDOH) W. Provoncha (NCDH) P. Young (NCDH) R. Putnam (NCDH) C. Alario (Liberty) J. Kilpatrick (Liberty) G. Sachs (Liberty) P. Connell (D&B) L. Ortiz (D&B) •5479\KK07102301_Q2 2023

ATTACHMENT A

MCL Deferral Project Schedule

Liberty New York Water Merrick Operations District	Seamans Neck Road Wells 3A and 4
MCL Deferral Report - Q2 2023	AOP Project Schedule
Task Name	
Pilot Test (Complete)	Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4
Basis of Design Report (BODR) (Complete)	
Regulatory Review of BODR (Complete)	
Detailed Design (Complete)	
Regulatory Review of Contract Documents (Complete)	
Town Zoning Process (Complete)	
Bidding and Construction (In Progress)	
Startup and Regulatory Acceptance Testing	

ATTACHMENT B

Public Notification Documentation

2020 WATER QUALITY REPORT

Service Area 2–South Shore: Merrick Operations District

Public Water Supply ID# NY2902840

This report complies with Part 5-1.72, New York State Sanitary Code (10 NYCCR) and federal Consumer Confidence Report regulations (40 CFR Part 141, Subpart 0).

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

本报告与您的饮用水有关。 如果您不了解其内容,应请别人为您翻译解说。

이 보고서에는 귀하께서 사용하고 계시는 식수에 관한 정보가 들어있습니다. 만약에 이해를 못하시면 누군가에게 번역을 의뢰하십시오.

A Message from the New York American Water President



To Our Valued Customer:

Thank you for the opportunity to serve you. I am pleased to share our **Annual Water Quality Report** with you – this is our report card on the quality of the drinking water delivered to our customers. The report shows that we continue to supply you with water that

meets or surpasses all county, state, and federal water quality standards. We encourage our customers to review this report as it provides important details about the source and quality of your drinking water between January and December 2020.

New York American Water (NYAW) invests in our infrastructure to deliver quality drinking water to our customers. This includes the facilities and technology needed to draw water from the source and treat it, along with miles and miles of pipeline hidden below the ground to bring water to your tap. In addition, our plant operators, water quality experts, engineers and maintenance crews work around the clock to provide you with quality water. Delivering safe, reliable water service requires significant investment to maintain and upgrade aging facilities. In 2020, we invested approximately \$62 million in system improvements. NYAW is also making important investments in water treatment technology to comply with New York State Department of Health's (NYSDOH) new drinking water standards for emerging compounds, specifically 1,4-Dioxane, PFOA, and PFOS.

NEW YORK MERICAN WATER

The COVID-19 public health emergency highlighted how essential water is for public health. We remain steadfast in our commitment to delivering safe and reliable water service while maintaining a safe environment for our employees and customers. NYAW extends our sincerest gratitude to our field employees as well as all frontline workers and essential employees who are on the job and keeping life flowing. Thank you!

Sincerely,

Lynda DiMenna President, New York American Water

Public Participation – How You Can Get Involved

Customers can participate in decisions that may affect the quality of water by:

- Reading the information provided in bill inserts and special mailings
- Contacting the company directly with questions or to discuss issues
- Attending open houses conducted by the company
- Responding to survey requests
- Attending presentations by the company made to local community and civic associations
- Contacting agencies such as the Nassau County Health Department (NCDOH) at 516-227-9692

QUALITY. ONE MORE WAY WE KEEP LIFE FLOWING.

Be Water Smart – Think Conservation

The New York State Department of Environmental Conservation requested that all Long Island water suppliers reduce their peak pumpage by 15 percent to protect the long-term sustainability of the Long Island aquifer. Our customers must conserve water to help us achieve this goal. When our customers conserve, not only do they reduce their water bill, but NYAW is able to defer infrastructure investment projects that are needed to meet peak water demand, which can reach as high as 50 million gallons of water a day in the summer.

The following suggestions will help you make your home "water efficient" without sacrificing comfort or changing lifestyles:

- Install smart irrigation technology on your irrigation system to irrigate as efficiently as possible.
- Install a moisture sensor on your irrigation system to prevent wasteful watering during or just after a rain.
- Use native, drought-resistant shrubs, trees, plants, and • grasses in your landscape.
- Run dishwashers and washing machines only with full • loads.
- Turn off the tap when brushing your teeth or shaving. •
- Check every faucet for leaks. Even a slow drip can . waste 15 to 20 gallons a day, or about 6,000 gallons a year.
- If you suspect that you have a water leak, order our • free Leak Detection Kit. The kit contains information, and dye tablets to help you determine if you have a wasteful water loss. Call our customer call center or 516-632-2244 to order.
- Replace older devices with water-saving showerheads, . faucets, or low flush toilets. A normal showerhead uses 5 to 7 gallons a minute. Switching to a low-flow model that uses 1.5 gallons a minute can save a family thousands of gallons of water a year.

What is a Water Quality Report?

To assure that water is safe to drink, the U.S. Environmental Protection Agency (USEPA), and the Health Departments of New York State and Nassau County, set regulations for water quality and indicate the levels of various substances that are acceptable in public drinking water. This report explains how our water measures up to those standards. As you can see by the results, our water quality is excellent.

The NYSDOH) and the U.S. Food & Drug Administration regulate and set limits for substances in bottled water, which must also provide protection for public health.

During 2020, our system was in compliance with applicable NYS drinking water operating, monitoring and reporting requirements. If you have questions about this report, please contact our Water Quality Manager at 516-632-2239.

Share This Report:

Landlords, businesses, schools, hospitals, and others are encouraged to share this important water quality information with water users at their location who are not direct customers of NYAW. Additional copies of this report are available by contacting us at 516-632-2239.

How to Contact Us

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers protect our water sources, which are the heart of our community. Please call our Customer Call Center tollfree if you have questions:

NYAW:

Customer Call Center: 1-877-426-6999 (M-F; 7am-7pm) Emergencies: 1-877-426-6909 (24 hours) TDD (Hearing/Speech impaired): 1-800-300-6202 Online: www.newyorkamwater.com

Merrick Administrative Office:

New York American Water 60 Brooklyn Avenue, Merrick, NY 11566 516-632-2232

Billing Payment Address:

New York American Water PO BOX 371332 Pittsburgh, PA 15250-7332

Water Information Sources : NYSDOH

1-518-473-8600 • www.health.state.ny.us NCDOH 516-227-9692 • www.co.nassau.ny.us/health New York State Department of Public Service 1-800-342-3377 • www.dps.state.ny.us USEPA www.epa.gov/safewater

EPA Safe Drinking Water Hotline 1-800-426-4791 American Water Works Association www.awwa.org Water Quality Association www.wga.org

About NYAW

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

About American Water

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 6,800 dedicated professionals who provide regulated and market-based drinking water,



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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 <u>amwater.com</u> and follow American Water on <u>Twitter</u>, <u>Facebook</u> and <u>LinkedIn</u>.

Communities Served

Bellmore East Massapequa* Levittown* Massapequa* Merrick North Bellmore North Merrick North Merrick North Seaford North Wantagh Seaford Wantagh *community partially served

Average Residential Usage & Cost

In 2020, the average residential household used approximately 105,353 gallons of water at a cost of about \$646, or \$1.77 a day. With an average of 3.0 persons per household, the cost of water was about 59¢ a day per person.

Source, Quality & Quantity

Groundwater is the source of your drinking water supply. It is drawn from 16 wells located in the aquifer system beneath the land surface.

The Aquifers

The aquifers are water-bearing geologic deposits of sand and clay that absorb and store about 45 percent of the rain and snow that fall on Long Island. NYAW– Merrick Operations Center has wells in the Magothy aquifer.

Not all wells are operating at the same time, which means that the water you receive is a blend of treated water from different well locations (an integrated system).



Not to scale

If you have a private well which is unregulated and untested, you should not use the water for drinking or cooking. (Source: NCDOH)

Source Water Assessment

The NYSDOH, with assistance from the local health department and a consulting firm, has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how rapidly contaminants can move through the subsurface to the wells. The susceptibility of a water supply well to contamination is dependent upon both the presence of potential sources of contamination within the well's contributing area and the likelihood that the contaminant can travel through the environment to reach the well. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is or will become contaminated. See section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected (if any). The source water assessments provide resource managers with additional information for protecting source waters into the future.

Drinking water is derived from 16 wells. The source water assessment has rated most of the wells as having a very high susceptibility to industrial solvents and a high susceptibility to nitrates. The elevated susceptibility to industrial solvents is due primarily to point sources of contamination related to transportation routes and commercial/ industrial facilities and related activities in the assessment area. The high susceptibility to nitrate contamination is attributable to residential, commercial, and institutional land use and related practices in the assessment area, such as fertilizing lawns.

A copy of the assessment, including a map of the assessment area, can be obtained by contacting our Water Quality Manager at 516-632-2239.

How is Your Water Treated?

Our water supply is obtained from wells located throughout our service area, and average about 500 feet in depth. In our area of southeastern Nassau County, the soil has naturally high iron and mineral content. The water dissolves these naturally occurring minerals, and while they are not health hazards, they can cause discolored water issues. Bacteriological pollutants are not usually present in wells at the average depth of 500 feet and, consequently, water directly from the well is drinkable. However, water treatment is required to protect the water in the distribution system and to minimize discolored water conditions.

Treatment consists of:

1. Chlorination for bacteriological disinfection (using Sodium Hypochlorite)



- 2. Caustic Soda (Sodium Hydroxide) to raise pH and minimize corrosivity to water mains and household plumbing
- 3. Filtration to remove iron at three well locations
- 4. Calciquest (Phosphate compound) to stabilize or sequester the iron not removed by filtration, and to act as a corrosion control inhibitor.
- 5. Granular Activated Carbon (GAC) to remove organics at one well location (US Navy / Northrop-Grumman plume site).

We take steps to reduce the potential for lead to leach from your pipes into the water. This is accomplished by adding a corrosion inhibitor (Calciquest is an Orthophosphate compound) to the water leaving our treatment facilities. There are steps that you can take to reduce your household's exposure to lead in drinking water. For more information, please review our Lead and Drinking Water Fact Sheet at:

www.nyamwater.com/water-quality/lead-and-drinkingwater

System Improvements

In 2020, we continued to make significant upgrades to our system and infrastructure. These improvements include:

- Replaced 14,893 feet of water main throughout the service territory.
- Replaced 10 fire hydrants.
- Replaced 114 service lines.
- Replaced 8,014 water meters.
- Completed replacement of the iron filtration media and drilled a new 3 Million-Gallon-Per-Day water supply well at the Newbridge Road Treatment Plant in North Bellmore.
- Drilled a new 3 Million-Gallon-Per-Day water supply well at the Jefferson Plant in Merrick.
- Completed design of a 6 Million-Gallon-Per-Day Advanced Oxidation Plant for removal of 1,4-Dioxane at the Seaman's Neck Treatment Plant in Wantagh.

Improvements planned for 2021 include:

- Replace approximately 14,700 feet of water main.
- Replace 5 fire hydrants.
- Replace 120 service lines.
- Replace approximately 1,500 water meters.
- Construct new well buildings at the Jefferson St. Plant in Merrick, and the Newbridge Plant in North Bellmore.
- Breaking ground on construction of the 6 Million-Gallon-Per-Day Advanced Oxidation Plant for removal of 1,4-Dioxane at the Seaman's Neck Treatment Plant in Wantagh.
- Drilling of a replacement 3 Million-Gallon-Per-Day water supply well at the Sunrise Mall Well Site in Massapequa.

Do I Need to Take Special Precautions?

To ensure that tap water is safe to drink, the USEPA prescribes regulations limiting the number of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish

limits for contaminants in bottled water, which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Although our drinking water meets all state and federal regulations, some people may be more vulnerable to disease-causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care provider about their drinking water.

If you have questions, contact the NCDOH at 516-227-9692. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium*, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Substances Expected to be in Drinking Water

In general terms, the sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals or from human activities.

Substances that may be present in source water include:

- Microbiological Contaminants: Such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations or wildlife.
- Inorganic Contaminants (IOC's): Such as salts and metals which can be naturally occurring or may result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **Pesticides and Herbicides (SOC's):** Which may come from a variety of sources such as agriculture, urban storm water runoff and residential uses.
- Organic Chemical Contaminants (VOC's): Including synthetic and volatile organic chemicals which are by-products of industrial processes and petroleum production, and may also come from gas stations, urban storm water runoff and septic systems.
- Radioactive Contaminants: Which can be naturally occurring or may be the result of oil and gas production and mining activities.



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For more information about contaminants and potential health effects, call the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Cryptosporidiosis & Giardiasis

Although there have been no cases of Cryptosporidiosis in Nassau County attributable to the water supply, you should be aware of the risks to people with severely weakened immune systems. Cryptosporidiosis and Giardiasis are intestinal illnesses caused by microscopic parasites that can be transmitted several ways including through drinking water. Cryptosporidiosis can be very serious for people with weak immune systems, such as transplant patients; individuals receiving chemotherapy or dialysis, and people with Crohn's disease or HIV infection. Individuals who think they may have been exposed to Cryptosporidiosis or Giardiasis should contact their health care providers immediately.

Immuno-compromised patients who may have been advised by their health care provider that they may be at risk, especially when traveling, should observe the following:

- One minute of boiling water at a rolling boil will kill *Cryptosporidium* parvum and Giardia lamblia.
- Drinking bottled water does not guarantee that the water is free from Cryptosporidiosis or Giardiasis.
 Contact your health care provider about your options. If you have questions, contact the NCDOHat 516-227-9692.

Lead & Copper Rule Statements

The Lead and Copper Rule requires sampling for lead and copper at the tap. In 1992, the first-year testing was required; tap water was sampled in compliance with EPA regulations. Test results were excellent: at least 90 percent of the lead tests were well below 10 parts per billion, and for copper, below 0.5 parts per million, indicating that the company's corrosion control treatment processes continue to be effective. The same tests were done roughly every three years from 1997 through 2020 with similar results. We are on an approved reduced monitoring schedule, and the next round of homeowner monitoring for the Lead and Copper Rule was completed in the summer of 2023. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. New York American Water is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in drinking water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at http://www.epa.gov/safewater/lead.

How do I read the Water Quality Table?

The Water Quality Table – **"Table of Detected Contaminants**" is the most important section in this report, containing details on New York American Water's comprehensive testing program for drinking water at the tap. It compares the results from tests we performed in 2020 (and earlier) with the health standards established by federal, state, and local health authorities. Of approximately 165 substances or parameters tested, detectable levels were found for about 35; and these levels are trace amounts, well below the levels set to protect public health.

To review the quality of your drinking water, compare the result in the "Maximum Amount Detected" column with the Standard in the "MCL" column. That Standard is the highest level that is considered safe for drinking water. To be in compliance, the High result in the "Range: Low-High" column should be lower than the MCL Standard. For example, under Metals & Inorganic Substances, the "MCL" standard for Barium is 2,000 ppb and the "Maximum Amount Detected" result is 120 ppb, well below the maximum allowed level (or "MCL").

Also review the "**Compliance Achieved**" and "**Violation**" columns to determine if New York American Water violated any standards. As you can see, our system had no violations. Further evidence of the quality of our water can be seen in the "**Listing of Non-Detected (ND) Contaminants**" — An extensive list of substances that we tested for and did not find in our distribution system and/or water sources.

The **Definition of Terms** below provides further explanation of the data.

Definitions of Terms Used in This Report

- Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible.
- Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- **MGD** = Million Gallons per Day
- **90th Percentile Value:** The values reported in the "Lead and Copper Rule" section represent the 90th percentile. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90 percent of the lead and copper values detected in your water system.
- N/A: Not applicable



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- None Detected (ND): Laboratory analysis indicates that the constituent is not present at the method detection level.
- Parts Per Million (ppm): Corresponds to one part of liquid in one million parts of liquid [Equivalent to "milligrams per liter" (mg/L)].
- Parts per Billion (ppb): Corresponds to one part of liquid in one billion parts of liquid [Equivalent to "micrograms per liter" (µg/L)].
- Parts per Trillion (ppt): Corresponds to one part of liquid in one trillion parts of liquid [Equivalent to "nanograms per liter"; or one second in approximately 31,506 years].
- **Picocuries per liter (pCi/L):** A measure of the radioactivity in water.
- Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.
- Total Dissolved Solids (TDS): An overall indicator of the amount of minerals in the water.

Water Quality Facts

To provide high quality water, individual water samples are taken each year for chemical, physical, and microbiological tests. Testing can pinpoint a potential problem so that preventive action may be taken.

Tests are done on water taken from the well ("raw water"), water within our treatment facilities, water exiting our treatment plants at the point-of-entry to the distribution system, and from sites located throughout our distribution system after treatment. These tests are conducted in the company's state certified laboratory, by the NCDOH Laboratory, and by independent, certified laboratories approved by the state, who report results simultaneously to the company and to the Health Department. NYS allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year-to-year. Some of the data, though representative of the water quality, are more than one year old.

For a copy of the Water Supplement containing detailed data on testing at the source water wells before treatment, call us at 516-632-2239 and request a copy.

2020 STATISTICS AT-A-GLANCE

LOLO OTATIOTICO ATA GLA	
Wells Closed/Restricted	None
Violations of Standards	None
Typical Well Depth	500 Feet
Aquifers	Magothy
Pumping Stations	12
Service Area	20 Square Miles
Total Water Withdrawn	5,055,053,000 Gal.
Total Water Sales	4,837,659,000 Gal.
Total Water Lost from System*	259,890,000 Gal.
Population Served (approx.)	135,000
Customers Served (accounts)	45,018
Miles of Mains	433

 \ast Total water lost from the system includes "Accounted For" and "Unaccounted For" water. Non-revenue water is approx. 9.4% of total water delivered to the system; of which, approximately 5.1% is accounted for and 4.3% is unaccounted for.

Water Quality Table – Table of Detected Contaminants 2020 (SA2 - Merrick Operations) REGULATED SUBSTANCES

Contaminant (units)	Date Sampled	MCL	MCLG	Maximum Amount Detected	Range: Low- High	Violation (Yes/No)	Typical Source	
Microbiological							·	
Total Coliform (% positive samples in any given month) ¹	2020 (highest month was August 2020)	TT=>5% samples positive	N/A	1.6% ¹ (2 POS out of 126 total samples in August 2020)	ND (0%) - 1.6%	No	Naturally present in the environment	
Disinfection By-Products								
TTHM's (Total Trihalomethanes) (ppb) ²	Quarterly	80	0	4.8	<1.0 - 4.8	No	By-product of drinking	
HAA5's (Total Haloacetic acids) (ppb) ³	2020	60	0	<2.0	<2.0 - <2.0	No	water disinfection	
Disinfectants							·	
Chlorine (ppm) ⁴	2020	N/A	N/A	2.20	<0.10 - 2.20	No	Water additive used to control microbes	
Radiological ⁵								
Gross Alpha Activity (pCi/L)	10/2018	15	0	8.06	ND - 8.06	No		
Gross Beta Activity (pCi/L)	10/2018	50	0	4.23	0.171 - 4.23	No] 	
Combined Radium-226 and Radium-228 (pCi/L)	09/2018	5	0	4.61	0.280 - 4.61	No	Erosion of natural deposits	
Uranium (ug/L)	10/2018	30	0	0.187	ND - 0.187	No	1	



Lead and Copper Rule (Tap water samples were collected from 54 homes in the service area)

Contaminant (units)	Date Sampled	Action Level	MCLG	Amount Detected (90th %tile)	Range (Low-High)	Violation (Yes/No)	Typical Source
Copper (ppm) ⁶	07-09/	1.3	1.3	0.270	0.021- 0.340	No	
Lead (ppb) 7	2020	15	0	1.4	ND – 6.6	No	Corrosion of household plumbing systems

Metals & Inorganic Substances

Contaminant (units)	Date Sampled	MCL	MCLG	Maximum Amount Detected	Range: Low-High	Violation (Yes/No)	Typical Source
Barium (ppb)	10/2020	2,000	2,000	120	ND - 120	No	Erosion of natural deposits
Calcium (ppm)	06/2020	N/A	N/A	5.4	ND – 5.4	No	Naturally occurring
Chlorides (ppm)	06/2020	250	N/A	26.7	ND - 26.7	No	Naturally occurring or indicative of road salt contamination
Iron (ppb) ⁸	06/2020	300	N/A	940	ND - 940	No	Naturally occurring
Manganese (ppb) ⁸	05/2020	300	N/A	89	ND - 89	No	Naturally occurring
Nickel (ppb)	11/2020	N/A	N/A	25.0	1.2- 25.0	No	Naturally occurring
Nitrates as N (ppm)	07/2020	10	10	0.320	ND - 0.320	No	Erosion of natural deposits; Runoff from fertilizers and septic tanks
Sodium (ppm) ⁹	10/2020	N/A	N/A	37.5	2.6 - 37.5	No	Naturally occurring; Road salt; Water softeners
Sulfate (ppm)	06/2020	250	N/A	59.3	ND - 59.3	No	Naturally occurring; Road salt; Water softeners

Organic Substances

Contaminant (units)	Date Sampled	MCL	MCLG	Maximum Amount Detected	Range: Low-High	Violation (Yes/No)	Typical Source
Trichloroethene (TCE)- (ppb)*	12/2020	5	0	22.5	ND - 22.5	No	Discharges from metal degreasing sites and other factories. Grumman-NAVY plume
Specific Organic Compounds							
1,4 dioxane (ppb)*	11/2020	1.0	N/A	1.50	ND - 1.50	No	Released into the environment from commercial and industrial sources and is associated with inactive and hazardous waste sites

Physical Parameters & Unregulated Substances

Contaminant (units)	Date Sampled	Maximum Amount Detected	Range: Low-High	Typical Source
Alkalinity (ppm)	2020	48.5	27.9 - 48.35	N/A
Calcium Hardness (ppm)	2020	3.7	0.9 – 3.7	N/A
Color Index (units)	2020	15	ND - 15	Presence of metals such as copper, iron and manganese. Results greater than 15 units are considered 'discolored'.
Corrosivity (Langelier Index) ¹⁰	2020	(-2.31)	(-3.27) - (-2.31)	N/A
Hardness, Total (ppm)	2020	10.1	1.7 - 10.1	N/A
Magnesium (ppm)	2020	1.9	ND - 1.10	Naturally occurring
pH (units) ¹¹	2020	7.1	7.0 - 7.1	N/A
Total Dissolved Solids (TDS) (ppm)	2020	123	42 123	N/A

Footnotes:

¹ A total of 1,449 distribution system bacteriological samples were taken in 2020, with 3 positive Total Coliform results = 0.21% positives for the year. ²TTHM's mean the sum of: Bromoform, Bromodichloromethane, Dibromochloromethane, and Chloroform. The highest 'Locational Running Annual Average"

was 4.8 ppb in 2020.

³ HAA5's includes the sum of: Monochloroacetic acid, Dichloroacetic acid, Trichloroacetic acid, Bromoacetic acid, and Dibromoacetic acid. The highest 'Locational Running Annual Average" was less than 2.0 ppb ("<2.0") in 2020.

⁴ The running annual average of all Chlorine Residual readings (1,459) in the distribution system was **1.50 ppm** for 2020.

⁵ Radiological results are from individual raw water wells, and not distribution locations, as required by the NCDOH.

⁶ The level presented represents the 90th percentile of 54 sites tested. The "action level" for copper was not exceeded at any of 54 sites tested.

⁷ The level presented represents the 90th percentile of 54 sites tested. The "action level" for lead was not exceeded at any of 54 sites tested.

⁸ Higher levels of iron (up to 1,000 ppb) may be allowed by the state when justified by the water supplier, as is the case with NYAW - Merrick Operations district. The Total of iron and manganese should not exceed 500 ppb, unless allowed by the state, as is the case with NYAW - Merrick Operations district.



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⁹ Water containing more than 20 mg/L of sodium should not be used for drinking by persons on severely restricted sodium diets. Water containing more than 270 mg/L of sodium should not be used for drinking by people on moderately restricted sodium diets.

¹⁰ The NCDOH recommends that the Langelier Saturation Index (for corrosivity) be as close to zero as possible.

¹¹NCDOH guidelines recommend a pH range of 7.0 – 8.5. The running annual average of all pH readings in the distribution system taken during routine bacteriological testing was **7.10 units** in 2020.

*See public notification attached for 1,4 dioxane information.

Unregulated Contaminant Monitoring Rule (UCMR4):

The following parameters were tested for as per a required USEPA monitoring program (2018 – 2020) to try to quantify the presence and amount of emerging or unregulated compounds to see if any should be regulated by the EPA in the future. Unregulated contaminants are those for which USEPA has not established drinking water standards for. The purpose of unregulated contaminant monitoring is to assist USEPA in determining the occurrence of these constituents in drinking water and whether future regulation is warranted. (No Federal MCL's exist for these parameters to-date, although some might be already regulated by the NYSDOH.)

The following contaminants that we tested for on the treated water exiting our treatment plants ("Entry Point" locations) were detected as follows:

		8		
Contaminant (units)	Date Sampled	Maximum Amount Detected	Range: Low-High	Typical Source
Manganese (ppb)	2018	37	ND - 37	Naturally occurring
Germanium (ppb)	2018	0.41	ND - 0.41	Naturally occurring

The following contaminants that we tested for on the raw water wells were detected as follows:

Contaminant (units)	Date Sampled	Maximum Amount Detected	Range: Low-High	Typical Source
Bromide (ppb)	2018	190	ND - 190	Naturally occurring
Total Organic Carbon (ppb)	2018	901.5	ND - 901.5	Naturally occurring

The following contaminants that we tested for on distribution system locations were detected as follows:

Contaminant (units)	Date Sampled	Maximum Amount Detected	Range: Low-High	Typical Source
Total Haloacetic Acids – UCMR4 (ppb)	2018	0.83	ND – 0.83	By-product of drinking water disinfection
Total Haloacetic Acids – Bromide-related (ppb)	2018	0.38	ND - 0.38	By-product of drinking water disinfection

Total Haloacetic Acids for UCMR4 include the sum of the following contaminant combinations: Monochloroacetic acid, Monobromoacetic acid, Dichloroacetic acid, Trichloroacetic acid, Bromochloroacetic acid, Dibromoacetic acid, Bromodichloroacetic acid, Chlorodibromoacetic acid, Tribromoacetic acid.

Unregulated Contaminant Monitoring Rule (UCMR4) - Listing of Non-Detected (ND) Contaminants (2018):

The following contaminants that we tested for under UCMR4 Monitoring Program were "Non-detected" (ND):

Alcohols:	Pesticides and byproducts:
1-butanol	Alpha-Hexachlorocyclohexane
2-methoxyethanol	Chlorpyrifos
2-propen-1-ol	Dimethipin
	Ethoprop
Semi-Volatile Chemicals:	Oxyfluorfen
Butylated hydroxyanisole (BHA)	Profenofos
o-toluidine	Tebuconazole
Quinolone	Total Permethrin (cis- & trans-)
	Tribufos
Upredulated Contensinent Menitering Dule (UOMD2):	

Unregulated Contaminant Monitoring Rule (UCMR3):

The following parameters were tested for as per a required USEPA monitoring program (2013 - 2015) to try to quantify the presence and amount of emerging or unregulated compounds to see if any or all of them should be regulated by the USEPA in the future (No MCL's for these parameters to-date).

The following contaminants that we tested for on the treated water exiting our treatment plants ("Entry Point" locations) were detected as follows:

Contaminant (units)	Date Sampled	Maximum Amount Detected	Range: Low-High	Typical Source
1,4-Dioxane (ppb) *	2017-2019	1.35	ND - 1.35	Manufacturing solvent

*NYS guidance level for 1,4-dioxane was 1.0 ppb before new regulations were put into effect in August of 2020. Special 1,4-dioxane sampling was performed on raw water wells in 2017-2019 by the water company for proactive, informational, and quality control purposes only, and not due to any regulatory requirement.

USEPA Health Advisory Definitions:

Health advisories provide information on contaminants that can cause human health effects and are known or anticipated to occur in drinking water. EPA's Health Advisories are non-enforceable and non-regulatory and provide technical information to states agencies and other public health officials on health effects, analytical methodologies, and treatment technologies associated with drinking water contamination.



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Special Message about new Regulations on Emerging Contaminants by NYSDOH:

On August 26, 2020, NYS adopted new drinking water standards for public water systems that set maximum contaminant levels (MCLs) of 10 parts per trillion (ppt) each for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), and 1 part per billion (ppb) for 1,4-dioxane.

About Drinking Water Standards and MCLs

A MCL is the highest level of a contaminant allowed in drinking water delivered by public water systems. They are enforceable regulatory limits. MCLs are set far below levels that cause health effects. According to the NYSDOH, because MCLs are set at levels with a large margin of protection, an exceedance of an MCL does not mean that water is unsafe for use while the public water system takes actions to reduce the levels.

The USEPA has also established guidance for the presence of PFOA and PFOS in drinking water. The EPA has established a nonenforceable health advisory level of 70 parts per trillion (ppt) for the sum of PFOA and PFOS. An MCL for 1,4-Dioxane in drinking water has not been established by the EPA.

What Are Emerging Compounds?

1,4-Dioxane is a synthetic industrial chemical that is present in many goods, including paint strippers, dyes, greases, antifreeze, and aircraft deicing fluids, and in some consumer products such as deodorants, shampoos and cosmetics.

PFOA/PFOS are per- and polyfluoroalkyl substances (PFAS), which are a group of man-made chemicals that can be found in food packaging; commercial household products, including stain- and water-repellent fabrics (ex: Scotchgard), nonstick products (e.g., Teflon), polishes, waxes, paints, and cleaning products; and fire-fighting foams.

Emerging compounds can enter our water resources after being landfilled, spilled, discharged as waste, or by seepage and infiltration into the water table, eventually entering water supplies.

NYAW's Action Plan

In advance of the adoption of these new standards by the State, New York American Water tested its entire water supply to determine the presence of these emerging compounds.

NYAW determined that, of the 55 sites that supply water across NYAW's service areas in Long Island and upstate New York, one site in your district has detections of emerging compounds above the NYS MCLs. Detections of 1,4-Dioxane at the Seamans Neck Well Station in North Wantagh/Levittown at 1.4 ppb. NYAW is pursuing Advanced Oxidation Process (AOP) treatment for 1,4-Dioxane at the Seamans Neck Well Station. NYAW has completed our AOP pilot testing and is working closely with the NCDOH on final treatment design. While AOP treatment will take time to fully install, NYAW's proactive approach has significantly reduced the time needed to install the right treatment system for our customers served by the Seamans Neck Well Station. Please see Public Notification below.

NYAW is pursuing the appropriate treatment where needed. While new treatment will take time to fully install, NYAW's proactive approach has significantly reduced the time needed to install the right treatment system for our customers.

When a public water system (PWS) is issued a deferral, the water system agrees to a schedule for corrective action and compliance with the new PFOS, PFOA, or 1,4-dioxane MCL's. In exchange, the NYSDOH agrees to defer enforcement actions, such as assessing fines, if the PWS is meeting established deadlines. Deferral recipients are required to update the Department and the NCDOH each calendar quarter on the status of the established deadlines. The Department can resume enforcement if the agreed upon deadlines are not met. Information about our deferral and established timelines can be found at the following site: https://www.amwater.com/nyaw/water-quality/Emerging-Compounds/seamans-neck



IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER Deferral Issued for 1,4-Dioxane to New York American Water (NYAW) – Merrick

Why are you receiving this notice/information?

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

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

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

Laboratory studies show that 1,4-dioxane caused liver cancer in animals exposed at high levels throughout their lifetime. Other types of cancer have also been reported, although less consistently than liver cancer. There is no evidence of 1,4-dioxane cancer effects in humans. The United States Environmental Protection Agency considers 1,4- dioxane a likely human carcinogen based upon studies of animals exposed to high levels of this chemical over their entire lifetimes. At the level of 1,4-dioxane detected in your water, exposure from drinking water and food preparation is well below 1,4-dioxane exposures associated with health effects.

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

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

What is being done to remove these contaminants?

NYAW - Merrick is in the process of installing treatment to remove 1,4-dioxane at our Seamans Neck Road Facility and will operate impacted wells in a last on first off sequence to minimize exposure to 1,4-Dioxane. Additional information will be shared as further testing and progress occurs. This process is similar for any chemical detected in public drinking water that requires mitigation. The compliance timetable will ensure that your drinking water will meet the MCL as rapidly as possible. The deferral is effective until August 25, 2022.

Where can I get more information?

For more information, please contact our Customer Service Center at 1-877-426-6999 or Natasha Niola, Water Quality Manager at 516-632-2239. You can also contact the Nassau County Health Department at (516) 227-9692. If you have additional questions about these contaminants and your health, talk to your health care provider who is most familiar with your health history and can provide advice and assistance about understanding how drinking water may affect your personal health.

Public Water System ID#: NY2902840 Date: January 21, 2021



Listing of Non-Detected (ND) Contaminants – 2020 (SA2 - Merrick Operations):

None of the following compounds that we analyzed for were detected in your drinking water at the respective method detection levels:

Microbiological: E.coli

Inorganics & Physical:

Ammonia as N Cyanide, free Fluoride Nitrite as N Perchlorate Surfactants (as MBAS) Turbidity

Metals:

Antimony Arsenic Beryllium Cadmium Chromium Mercury Selenium Silver Thallium Zinc

Miscellaneous: Asbestos fibers Chlorobenzene Chloroethane Chloromethane Chlorodifluoromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane 1.2-Dichlorobenzene 1,3-Dichlorobenzene 1.4- Dichlorobenzene (Meta) Dichlorodifluormethane 1.1-Dichloroethane 1.2-Dichloroethane 1,1-Dichloroethane cis-1.2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1.3-Dichloropropane 2.2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene Hexachlorobutadinene Isopropylbenzene 4-Isopropyltoluene Methyl Tert Butyl Ether (MTBE) Methylene Chloride (Dichloromethane) n-Propylbenzene Styrene 1,1,2-trichloro 1,2,2trifluoroethane 1,1,1,2-Tetrachloroethane 1.1.2.2-Tetrachloroethane Tetrachloroethene (PCE) Toluene 1.2.3-Trichlorobenzene 1,2,4-Trichlorobenzene 1.1.1-Trichloroethane 1,1,2-Trichloroethane Trichlorofluoromethane 1.2.3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene M-Xylene 0-Xylene P-Xylene Vinvl Chloride

Volatile Organic Compounds (VOC's):

Benzene

Bromobenzene

Bromomethane

n-Butvlbenzene

sec-Butvlbenzene

tert-Butylbenzene

Carbon Tetrachloride

Bromochloromethane

Synthetic (Specific) Organic Compounds (SOC's)* Regulated Group #1:

Alachlor Aldicarb Aldicarb Sulfone Aldicarb Sulfoxide Atrazine Carbofuran Chlordane, Total 1,2-Dibromo-3-Chloropropane (DBCP) 2,4-D Endrin 1,2-Dibromomethane (EDB) Heptachlor Heptachlor Epoxide Lindane Methoxychlor PCB's Pentachlorophenol Toxaphene 2,4,5-TP (Silvex)

Regulated Group #2:

Aldrin Benzo(a)pyrene Butachlor Carbaryl Dalapon Di (2-Ethylhexyl) adipate Di (2-Ethylhexyl) phthalalte Dicamba Dieldrin Dinoseb Diquat Endothall Glyphosate Hexachlorobenzene Hexachlorocyclopentadiene 3-Hydroxycarbofuran Methomyl Metolachlor Metribuzin Oxamyl (Vydate) Picloram Propachlor Simazine 2,3,7,8-TCDD (Dioxin)

* Synthetic (Specific) Organic

Compounds (SOC's) are mainly Pesticides and Herbicides, and are required to be tested on raw water wells, and not on distribution locations, as per NCDOH requirements.

Unregulated Contaminant Monitoring Rule (UCMR3):

The following parameters were tested for as per a required USEPA monitoring program (2013 - 2015) to try to quantify the presence and amount of emerging or unregulated compounds to see if any should be regulated by the EPA in the future.

The following contaminants that we tested for on the treated water exiting our treatment plants ("point of entry" locations) were "Nondetected" (ND):

UCMR3 Volatile Organic Compounds (VOC's) Group (all ND):

1,1-Dichloroethane 1,2,3-Trichloropropane 1,3-Butadiene Bromochloromethane (halon1011) Bromomethane Chlorodifluoromethane Chloromethane <u>UCMR# Perfluorinated</u> Compounds Group (all ND):

Perfluorooctanesulfonin acid (PFOS) Perfluorooctonoic acid (PFOA) Perfluorononanoic acid (PFNA) Perfluorohexanesulfonic acid (PFHxS) Perfluoroheptanoic acid (PFHpA) Perfluorobutanesulfonic acid (PFBS)

UCMR3 Hormones Group (all ND):

Estradiol (17beta-) Equilin 4-Androstene-3,17-dione Estrone Ethynylestradiol (ethinyl estradiol) Hydroxyestradiol Testosterone



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RESULTS TO PROVE IT

We have an exceptional track record when it comes to water quality and drinking water regulatory compliance. That's why we invite you to read our latest Water Quality Report, specifically for your local community.



new york American Water

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PROVIDING SAFE, QUALITY WATER SERVICE

- Our drinking water meets or surpasses all primary state and federal standards, including regulations related to lead.
- Statewide, we perform thousands of tests each year on the water before it leaves our treatment plants, plus a significant number of tests in the distribution system.
- Our team of water quality experts sample and interpret data regularly, following state quality control standards. Our team utilizes certified labs across the state to process and analyze these samples. We sample above and beyond the required regulations provided by the USEPA and the local health departments.

See how we're doing in your community.

Every year, we provide a detailed analysis of the water we deliver to our communities in our Water Quality Reports. To learn more about our commitment to water quality or to view the Water Quality Report for your area, visit us online at **newyorkamwater.com**. Under Water Quality, select Water Quality Reports.

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2023 Consumer Confidence Report on Water Quality for 2022

Annual Water Quality Report

Merrick Operations District Public Water Supply ID# NY2902840



Message from the President

Dear Liberty Customers,

At Liberty, providing customers with safe, quality drinking water is at the forefront of everything we do – day in and day out. We do this by continuously investing in our infrastructure and by constantly looking for opportunities improve our operations and seek enhancements to our daily processes.

Liberty makes significant investments each year to ensure the water we deliver to customers meets all Safe Drinking Water Act (SDWA) standards established by the United States Environmental Protection Agency (EPA) and New York State Department of Health (NYSDOH). We invest responsibly to maintain the local water infrastructure, because strong infrastructure is a key factor in delivering quality water. Additionally, we have a top-notch water quality program that ensures the water delivered to your home or business is thoroughly tested by independent laboratories and the data is provided to the state to verify compliance with all applicable SDWA and NYSDOH water regulations.

In the pages that follow, you will find our 2022 Water Quality Report (Consumer Confidence Report), which outlines detailed information regarding the quality of water we provided in calendar year 2022. This report can be found on our website at <u>www.libertyenergyandwater.com</u>. It includes information like the source of your water, the areas we serve, information about naturally occurring substances in the water and how we get eliminate them, our complex intake and distribution system, and more.

If you have any questions about the information within this report, please don't hesitate to contact us anytime at 1-877-426-6999 TDD:711. We encourage you to visit our website at <u>www.libertyenergyandwater.com</u> to stay up-to-date and receive tips about water conservation and more.

On behalf of the entire Liberty family, thank you for being a valued customer and neighbor. We are proud to be your water provider and look forward to serving you for years to come.

Sincerely, Chris Alario President, Liberty New York Water

To request a printed copy of this report, please call us at 1-877-426-6999 TDD:711. This report can also be found at <u>www.libertyenergyandwater.com</u>.



Where Does My Water Come From?

The Merrick water system serves approximately 135,000 people through 45,018 connections. Our water source is groundwater wells located in the aquifer system beneath the land surface. The water is treated as prior to distribution in five ways. Sodium hypochlorite is added to the water bacteriological disinfection. Caustic Soda (Sodium Hydroxide) is used to raise pH and minimize corrosivity to water mains and household plumbing. Calciquest (Phosphate compound) is used to maintain optimum treatment and inhibit the corrosion of plumbing materials; and to stabilize naturally occurring iron and manganese that can cause discolored water conditions. Filtration to remove iron at three well locations. Granular Activated Carbon (GAC) to remove organics at one well location (US Navy / Northrop-Grumman plume site).

Communities Served

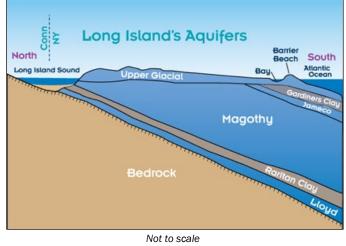
Bellmore	North Bellmore
East Massapequa*	Massapequa*
Merrick	North Merrick
North Seaford	Seaford
North Wantagh	Wantagh
Levittown*	

*community partially served



The Aquifers

The aquifers are water-bearing geologic deposits of sand and clay that absorb and store about 45 percent of the rain and snow that fall on Long Island. Merrick Operations Center has wells in the Magothy aquifer.



If you have a private well which is unregulated and untested, you should not use the water for drinking or cooking. (Source: NCDOH)

Be Water Smart – Think Conservation

The New York State Department of Environmental Conservation (NYSDEC) requested that all Long Island water suppliers reduce their peak pumpage by 15 percent to ensure the long-term sustainability of the Long Island aquifer. Our customers must conserve water to help us achieve this goal. When our customers conserve, not only do they reduce their water bill, but Liberty is able to defer infrastructure investment projects that are needed to meet peak water demand, which can reach as high as 50 million gallons of water a day in the summer.

The following suggestions will help you make your home "water efficient" without sacrificing comfort or changing lifestyles:

- Install smart irrigation technology on your irrigation system to irrigate as efficiently as possible.
- Install a moisture sensor on your irrigation system to prevent wasteful watering during or just after a rain.
- Use native, drought-resistant shrubs, trees, plants, and grasses in your landscape.
- Run dishwashers and washing machines only with full loads.
- Turn off the tap when brushing your teeth or shaving.
- Check every faucet for leaks. Even a slow drip can waste 15 to 20 gallons a day, or about 6,000 gallons a year.
- If you suspect that you have a water leak, order our free Leak Detection Kit. The kit contains information, hints, and dye tablets to help you determine if you have a wasteful water loss.
- Replace older devices with water-saving showerheads, faucets, or low flush toilets. A normal showerhead uses 5 to 7 gallons a minute. Switching to a low-flow model that uses 1.5 gallons a minute can save a family thousands of gallons of water a year.



Source Water Assessment

The NYSDOH, with assistance from the local health department and the CDM consulting firm, has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how rapidly contaminants can move through the subsurface to the wells. The susceptibility of a water supply well to contamination is dependent upon both the presence of potential sources of contamination within the well's contributing area and the likelihood that the contaminant can travel through the environment to reach the well. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is or will become contaminated. See section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected (if any). The source water assessments provide resource additional information managers with for protecting source waters into the future.



Drinking water is derived from 16 wells. The source water assessment has rated most of the wells as having a very high susceptibility to nitrates. The elevated susceptibility to industrial solvents is due primarily to point sources of contamination related to transportation routes and commercial/ industrial facilities and related activities in the assessment area. The high susceptibility to nitrate contamination is attributable to residential, commercial, and institutional land use and related practices in the assessment area, such as fertilizing lawns.

What are Drinking Water Standards?

Drinking water standards are the regulations set by the USEPA to control the level of contamination in the nation's drinking water. The USEPA and the NYSDOH are the agencies responsible for establishing drinking water quality standards in New York. This approach includes assessing and protecting drinking water sources; protecting wells and surface water; making sure water is treated by qualified operators; ensuring the integrity of the distribution system; and making information about water quality available to the public. The water delivered to your home meets the standards required by the USEPA and the NYSDOH.

This report describes those contaminants that have been detected in the analyses of almost 200 different potential contaminants, nearly 100 of which are regulated by the USEPA and the NYSDOH. Liberty is proud to tell you that there have been no contaminants detected that exceed any federal or state drinking water standards. Hundreds of samples are analyzed every year by a NYS certified laboratory. Sample results are available on the Table in this report. This report is intended to provide information for all water users. If received by an absentee landlord, a business, or a school, please share the information with tenants, employees, or students. We are happy to make additional copies of this report available; please call Liberty's Water Quality Manager at 516-273-5670. You may also access this report on the Liberty web page at www.libertyenergyandwater.com.

Substances That Could be in Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up



substances resulting from the presence of animals or from human activity.



Contaminants that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic Contaminants, such as salts and metals, which can be naturally- occurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwaterrunoff, and septic systems. Radioactive Contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the USEPA and the NYSDOH prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (USFDA) also establishes limits for contaminants in bottled water that provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA Safe Drinking Water Hotline at 1-800-426-4791. For information on bottled water visit the USFDA website at <u>www.fda.gov</u>.

Do I Need to Take Special Precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such with as persons cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The USEPA and Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection Cryptosporidium and other microbial by contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.



Cryptosporidiosis & Giardiasis

Although there have been no cases of Cryptosporidiosis in Nassau County attributable to the water supply, we thought you should be aware of the risks to people with severely weakened immune systems. Cryptosporidiosis and Giardiasis are intestinal illnesses caused by microscopic parasites that can be transmitted several ways including through drinking water. Cryptosporidiosis can be very serious for people with weak immune systems, such as transplant patients; individuals receiving chemotherapy or dialysis, and people with Crohn's disease or HIV infection. Individuals who think they may have been exposed to



Cryptosporidiosis or Giardiasis should contact their health care providers immediately.

Immuno-compromised patients who may have been advised by their health care provider that they may be at risk, especially when traveling, should observe the following:

- One minute of boiling water at a rolling boil will kill *Cryptosporidium parvum* and *Giardia lamblia*.
- Drinking bottled water does not guarantee that the water is free from Cryptosporidiosis or Giardiasis.

Contact your health care provider about your options. If you have questions, contact the NCDOH at 516-227-9692.

Lead & Copper Rule Statements

The Lead and Copper Rule requires sampling for lead and copper at the tap. In 1992, the first-year testing was required; tap water was sampled in compliance with EPA regulations. Test results were excellent: at least 90 percent of the lead tests were well below 10 parts per billion, and for copper, below 0.3 parts per million, indicating that the company's corrosion control treatment processes continue to be effective. The same tests were done roughly every three years from 1997 through 2020 with similar results. The next round of homeowner monitoring for the Lead and Copper Rule will be completed in the summer of 2023

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Liberty Utilities is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in drinking water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-4264791 or at http://www.epa.gov/safewater/lead.

System Improvements

In 2022, we continued to make significant upgrades to our system and infrastructure. These improvements include:

- Replaced 6,200 feet of water main throughout the
- service territory.
- Replaced 1 fire hydrants.
- Replaced 74 service lines.
- Replaced 1,731 water meters.
- Completed a new 3 Million-Gallon-Per-Day water supply well at the Newbridge Road Treatment Plant in North Bellmore.
- Completed a pipe loop water treatment study in South Hempstead researching ways to reduce rusty water.
- Completed clean out of Newbridge Road Treatment Plant water recharge basin.
- Construct wellhouse at a new water supply well at Jefferson Plant in Merrick.
- Completed blow off automation at Jefferson Supply Well 11 to reduce rusty water.
- Completed liner installation and rehabilitation of the 2 Million-Gallon-per-Day Newbridge Well 3 in North Bellmore.
- Complete cleaning and rehabilitation of the 3 Million-Gallon-per-Day Jerusalem Well 5 in Wantagh.

Improvements planned for 2023 include:

- Replace approximately 775 feet of water main.
- Replace 2 fire hydrants.
- Replace 8 service lines.
- Replace approximately 1,470 water meters.
- A new iron removal facility at Charles Plant in Merrick
- Start construction on 6 Million-Gallon-Per-Day Advanced Oxidation Plant for removal of 1,4-Dioxane at the Seaman's Neck Treatment Plant in Levittown.
- Replace iron filter media at Seaman's Neck Road Plant. Install new pH optimization system.
- Demolish old wellhouse at Jefferson Plant in Merrick.

2022 STATISTICS AT-A-GLANCE

Wells Closed/Restricted	1
Violations of Standards	None
Typical Well Depth	500 Feet
Aquifers	Magothy
Pumping Stations	12
Service Area	20 Square Miles



Total Water Withdrawn5,155,729Total Water Sales4,846,38Population Served (approx.)135,000Customers Served (accounts)45,018Miles of Mains433

5,155,729,000Gal. 4,846,385,260 Gal. 135,000 45,018 433

Average Residential Usage & Cost

In 2022, the average residential household used approximately 106,965 gallons of water at a cost of about \$656, or \$1.80 a day. With an average of 3.0 persons per household, the cost of water was about 60¢ a day per person.

Important Health Information

Lead

Lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Liberty New York Water is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact Liberty New York Water at 1-877-426-6999 TDD:711.

Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead.

1,4 dioxane

Laboratory studies show that 1,4 dioxane caused liver cancer in animals exposed at high levels throughout their lifetime. Whether 1,4 dioxane causes cancer in humans is unknown. The United States Environmental Protection Agency considers 1,4 dioxane as likely to be carcinogenic to humans based upon studies of animals exposed to high levels of this chemical over their entire lifetimes.

Is Our Water System Meeting Other Rules That Govern Our Operations?

During 2022, Merrick water system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

How Might I Become Actively Involved?

Customers can participate in decisions that may affect the quality of water by:

- Reading the information provided in bill inserts and special mailings
- Contacting the company directly with questions or to discuss issues
- Responding to survey requests
- Attending presentations by the company made to local community and civic associations; our last meeting was October 2022. 2023 meetings TBD.
- Contacting agencies such as the Nassau County Health Department (NCDOH) at 516-227-9692



Testing Results

During the year, Liberty collects water samples to determine the presence of any radioactive, biological, inorganic, or organic contaminants. All the substances listed in the table below tested under the Maximum Contaminant Level (MCL). Liberty believes it is important you know what was detected, and how much of the substance was present. The state allows the monitoring of certain substances less than once a year because the concentrations of these substances do not change frequently. If a substance was tested and there was no detection, it is not listed in this table. You can find Definitions, Terms and Abbreviations related to this Table in the next section for easy reference.

Merrick 2022 Annual Water Quality Report

PRIMARY STANDARDS - Health Based

DISTRIBUTION SYSTEM								
Disinfectant Residuals	Violation? (Yes/No)	Date of Sample	MRDL	MCLG	Range of Detection	Average	Typical Source of Constituent	
Chlorine (ppm) ¹	No	2022	4	N/A	0.05 – 2.20	1.44	Drinking water disinfectant added for treatment.	
Disinfection By- Products ²	Violation? (Yes/No)	Date of Sample	Primary MCL	MCLG	MCLG Dete		Typical Source of Constituent	
TTHMs (ppb)	No	Quarterly 2022	80	N/A		– 4.3 . 2.73	Byproduct of drinking water disinfection.	

Lead & Copper ³	Violation? (Yes/No)	Date of Sample	AL	MCLG	Sample Data	Range of Detection	90th % Level	Typical Source of Constituent
Copper (ppm)	No	07-09/	1.3	1.3	0 of the 32 samples collected	0.02 – 0.34	0.27	Internal corrosion of household plumbing systems; discharges from
Lead (ppb)	No	2020	15	0	exceeded the action level.	ND – 6.6	1.4	industrial manufacturers; erosion of natural deposits

RAW WELLS						
Radiological Constituents ⁴	Violation? (Yes/No)	Date of Sample	Primary MCL	MCLG	Range of Detections	Typical Source of Constituent
Combined Radium-226 & 228 (pCi/L)	No	07/2021	5	0	ND – 2.2	
Gross Beta (pCi/L)	No	07/2021	50 ^a	0	ND – 4.65	Erosion and decay of natural deposits.
Uranium (ppb)	No	07/2021	30 ^b	0	0.02 – 0.18	
Gross Alpha activity (pCi/L)	No	07/2021	15	0	ND – 2.2	Erosion and decay of natural deposits.

Inorganic Constituents	Violation? (Yes/No)	Date of Sample	Primary MCL	MCLG	Range of Detections	Typical Source of Constituent
Barium (ppm)	No	08/2022	2	2	ND – 0.01	Erosion of natural deposits; runoff from orchards, glass and electronics production wastes.
Nitrate (ppm)	No	08/2022	10	10	ND – 0.11	Erosion of natural deposits, fertilizers, sanitary waste systems.
Copper (ppm)	No	06/2022	1.3	1.3	ND – 0.04	Erosion of natural deposits.
Lead (ppb)	No	Monthly 08/2022	15	0	Avg- 1.6 ND – 2.2	Erosion of natural deposits.
Thallium (ppb)	No	Monthly 08/2022	2	0.5	Avg- 0.39 ND – 0.48	Leaching from ore processing sites; Discharge from electronics, glass, and drug factories.



Chloride (ppm)	No	08/2022	250	N/A	Avg- 9.8 3.0 – 22.2	Natural occurring or indicative of road salt contamination.
Sulfate (ppm)	No	08/2022	250	N/A	ND – 34.1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.
Cyanide (ppb) ⁵	No	08/2022	200	200	ND – 78.5	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories.
Turbidity (NTU)	No	05/2022	5	N/A	ND – 3.2	Soil runoff.
Zinc (ppm)	No	10/2022	5	N/A	ND – 0.06	Naturally occurring.
Fluoride (ppm) ⁶	No	07/2022	2.2	N/A	ND – 0.21	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories.

Organic Constituents	Violation? (Yes/No)	Date of Sample	Primary MCL	MCLG	Range of Detection	Typical Source of Constituent
1,4 dioxane (ppb) ⁷	No	Quarterly 2022	1	N/A	ND – 2.3	Released into the environment from commercial and industrial sources and is associated with inactive and hazardous waste sites.
Trichloroethene (TCE) (ppb) ⁸	No	06/2022	5	0	ND – 27.9	Discharges from metal degreasing sites and other factories.

SECONDARY STANDARDS - Aesthetics								
RAW WELLS								
Constituent	Violation? (Yes/No)	Date of Sample	Secondary MCL	MCLG	Average/ Range	Typical Source of Constituent		
Sodium (ppm) ⁹	No	08/2022	N/A	N/A	ND – 44.8	Naturally occurring; Road salt; Water softeners.		
Iron (ppm) ¹⁰	No	07/2022	0.3	N/A	ND – 0.95	Naturally occurring.		
Manganese (ppm) ¹¹	No	06/2022	0.3	N/A	ND – 0.05	Naturally occurring.		
Color (units)	No	08/2022	15	N/A	ND - 8	Natural color may be caused by decaying leaves, plants, and soil organic matter.		
Odor (units) ¹²	No	06/2022	3	N/A	ND - 8	Organic or inorganic pollutants originating from municipal and industrial waste discharges; natural sources.		

UNREGULATED CHEMICAL MONITORING							
RAW WELLS							
Constituent	Violation? (Yes/No)	Date of Sample	Notification Level	Range of Detection	Typical Source of Constituent		
Nickel (ppm)	N/A	08/2022	N/A	ND – 0.01	Naturally occurring.		
Alkalinity (ppm)	N/A	08/2022	N/A	ND – 56.3	N/A		
Calcium Hardness (ppm)	N/A	06/2022	N/A	ND – 15.1	N/A		
Calcium (ppm)	N/A	06/2022	N/A	ND – 6.0	N/A		
Corrosivity (LSI) ¹³	N/A	08/2022	N/A	(-7.48) – (-1.99)	N/A		
Total Hardness (ppm)	N/A	06/2022	N/A	ND – 23.3	N/A		
Magnesium (ppm)	N/A	06 & 08/2022	N/A	ND – 2.0	N/A		
pH (units) ¹⁴	N/A	03/2022	N/A	6.16 – 8.73	N/A		
TDS (ppm)	N/A	08/2022	N/A	ND - 169	N/A		
Germanium (ppb)	N/A	06/2018	N/A	0.41	N/A		

Notes:

1- Chlorine residual results in the table above represent averages of samples taken at the treatment plant Point-of-Entry location to the distribution system.



- 2- The Highest Level Detected from the table above for TTHM's and HAA's represent the highest level from the three distribution locations sampled. TTHMs (trihalomethanes) include chloroform, bromodichloromethane, dibromochloromethane, and bromoform. HAA5 (haloacetic acids) include mono-, di-, and trichloroacetic acid, and mono- and di-bromoacetic acid). HAA5's were not detected.
- 3- The level presented represents the 90th percentile of 54 sites tested. The "action level" for copper was not exceeded at any of 54 sites tested. The level presented represents the 90th percentile of 54 sites tested. The "action level" for lead was not exceeded at any of 54 sites tested.
- 4- Radiological results are from raw water wells, and not distribution locations, as required by the NCDOH. (a) The State considers 50 pCi/L to be the level of concern for beta particles. (b) 30 μg/l of uranium is approximately 20.1 pCi/L
- 5- Some people who drink water containing cyanide well in excess of the MCL over many years could experience nerve damage or problems with their thyroid. The wells where cyanide were detected, were resampled, and found to be not detected.
- 6- Fluoride was detected in two wells. The wells were resampled, and fluoride was not detected.
- 7- On August 26, 2020, New York State adopted new drinking water standards for public water systems that set maximum contaminant levels (MCLs) of 10 parts per trillion (10 ppt) each for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), and 1 part per billion (1 ppb) for 1,4-dioxane. One plant in the Merrick Operations district has 1,4 dioxane levels above the MCL. NYSDOH granted Merrick Operations District a deferral. Please see public notification on last page of this report.
- 8- TCE-Some people who drink water containing trichloroethylene in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer. Please note that the raw wells with detections of TCE are treated with Granular Activated Carbon (GAC). The water being distributed to the customers does not contain TCE.
- 9- Sodium (mg/l): Water containing more than 20 mg/l of sodium should not be used for drinking by people on a severely restricted sodium diet. Water more than 270 mg/l of sodium should not be used for drinking by people on a moderately restricted diet.
- 10- Higher levels of iron (up to 1,000 ppb) may be allowed by the state when justified by the water supplier, as is the case with Merrick Operations district. The Total of iron and manganese should not exceed 500 ppb, unless allowed by the state, as is the case with Merrick Operations district. The maximum level detected above is on a well that has iron removal filtration prior to distribution. Iron is essential for maintaining good health. However, too much iron can cause adverse health effects. Drinking water with very large amounts of iron can cause nausea, vomiting, diarrhea, constipation and stomach pain. These effects usually diminish once the elevated iron exposure is stopped. A small number of people have a condition called hemochromatosis, in which the body absorbs and stores too much iron. People with hemochromatosis may be at greater risk for health effects resulting from too much iron in the body (sometimes called "iron overload") and should be aware of their overall iron intake.
- 11- Manganese is an essential nutrient that is necessary to maintain good health. However, exposure to too much manganese can cause adverse health effects. There is some evidence from human studies that long-term exposure to manganese in drinking water is associated with nervous system effects in adults (e.g., weakness, stiff muscles and trembling of the hands) and children (learning and behavior). The results of these studies only suggest an effect because the possible influences of other factors were not adequately assessed. There is supporting evidence that manganese causes nervous system effects in humans from occupational studies of workers exposed to high levels of manganese in air, but the relevance of these studies to long term drinking water exposure is less clear because the exposures were quite elevated and by inhalation, not by ingestion.
- 12- The odor result of 8 units was in one well. That well was removed from service and resampled. There was 1 unit of odor in the resample.
- 13- The NCDOH recommends that the Langelier Saturation Index (for corrosivity) be as close to zero as possible.
- 14- NCDOH guidelines recommend a pH range of 7.5 8.5. The running annual average of all pH readings in the distribution system was 7.36 units in 2022.



Definitions, Terms and Abbreviations

90th percentile: For Lead and Copper testing. 10% of test results are above this level and 90% are below this level. **AL**: Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

MCLG: Maximum Contaminant Level Goal, or the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MCL: Maximum Contaminant Level, or the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MRDL: Maximum Residual Disinfectant Level, or the highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG: Maximum Residual Disinfectant Level Goal, or the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA: not applicable.



ND: not detectable at testing limits.

NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water.

pCi/L: picocuries per liter, a measure of radioactivity.

ppb: parts per billion or micrograms per liter.

ppm: parts per million or milligrams per liter.

RAA: Running Annual Average, or the average of sample analytical results for samples taken during the previous four calendar quarters.

Total Dissolved Solids (TDS): An overall indicator of the amount of minerals in the water.

What Does This Information Mean?

As you can see by the table, our system had no sample limit violations in 2022. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below New York State requirements.

Why Save Water? How To Avoid Wasting It.

Although our system has an adequate amount of water to meet present and future demands, there are several reasons why it is important to conserve water:

- Saving water saves energy and some of the costs associated with both of these necessities of life;
- Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
- Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water use restrictions so that essential firefighting needs are met.

You can play a role in conserving water by becoming conscious of the amount of water your household is using, and by looking for ways to use less. More efficient water use protects our valuable natural resource and conservation is easy. Useful tips for conserving include:

- Turn off the tap when brushing your teeth.
- Consider water and energy-efficient appliances. Upgrade to EPA certified Energy Star and WaterSense appliances to save both on water and energy without sacrificing performance. The USEPA reports that EPA-certified Energy Star washing machines may use 35% less water per load.
- Check every faucet, toilet and showerhead in your home for leaks 10 percent of homes have leaks that waste 90 gallons or more per day; don't be part of the 10%.

Check your toilets for leaks by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and save more than 30,000 gallons a year. More conservation tips and leak detection tools can be found at <u>www.libertyenergyandwater.com</u>.

Closing

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers help us protect our water sources. For questions concerning this report call Liberty Customer Service at 1-877-426-6999 TDD:711; or on the web at <u>www.libertyenergyandwater.com</u>.

Liberty - New York Water 60 Brooklyn Avenue Merrick, NY 11566



Spanish	<i>French</i>
Este informe contiene información muy importante sobre su	Ce rapport contient des informations importantes sur votre eau
agua beber. Tradúzcalo ó hable con alguien que lo entienda	potable. Traduisez-le ou parlez en avec quelqu'un qui le comprend
bien.	bien.
Korean	Chinese
아리의 보고는 귀하께서 드시는 식수에 대한 중요한 정보가 포함되어 있습	這份教告念有非常重要有閑悠喝的水
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양,ⓒ타4기를 바랍니다.	或解釋於悠施

Listing of Non-Detected (ND) Contaminants – 2022 (Merrick Operations)

None of the following compounds that we analyzed for were detected in your drinking water at the respective method detection levels:

Microbiological:

E.coli Total Coliforms

Inorganics & Physical:

Ammonia as N Nitrite as N Perchlorate Surfactants (as MBAS)

Metals:

Antimony Arsenic Beryllium Cadmium Chromium Mercury Selenium Silver

Miscellaneous: Asbestos fibers

Volatile Organic Compounds (VOC's):

Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane Chlorodifluoromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1,4- Dichlorobenzene (Meta) Dichlorodifluormethane 1.1-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethane cis-1,2-Dichloroethene trans-1.2-Dichloroethene

1.2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene Hexachlorobutadinene Isopropylbenzene 4-Isopropyltoluene Methyl Tert Butyl Ether (MTBE) Methylene Chloride (Dichloromethane) n-Propylbenzene Styrene 1.1.2-trichloro 1.2.2trifluoroethane 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene (PCE) Toluene 1.2.3-Trichlorobenzene 1,2,4-Trichlorobenzene 1.1.1-Trichloroethane 1.1.2-Trichloroethane Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene M-Xvlene O-Xylene P-Xylene Vinyl Chloride

Synthetic (Specific) Organic Compounds (SOC's) Regulated Group #1:

Alachlor Aldicarb Aldicarb Sulfone Aldicarb Sulfoxide Atrazine Carbofuran Chlordane, Total 1,2-Dibromo-3-Chloropropane (DBCP) 2,4-D Endrin 1,2-Dibromomethane (EDB) Heptachlor Heptachlor Epoxide Lindane Methoxychlor PCB's Pentachlorophenol Toxaphene 2.4.5-TP (Silvex)

Regulated Group #2:

Aldrin Benzo(a)pyrene Butachlor Carbarvl Dalapon Di (2-Ethylhexyl) adipate Di (2-Ethylhexyl) phthalalte Dicamba Dieldrin Dinoseb Diquat Endothall Glyphosate Hexachlorobenzene Hexachlorocyclopentadiene 3-Hydroxycarbofuran Methomyl Metolachlor Metribuzin Oxamyl (Vydate) Picloram Propachlor Simazine 2,3,7,8-TCDD (Dioxin)

Newly regulated

compounds Perfluorooctanoic acid (PFOA) Perfluorooctanesulfonic acid (PFOS)

Unregulated compounds:

Perfluorobutanesulfonic acid (PFBS) Perfluoronononoic Acid (PFNA) Perfluorodeconoic Acid (PFDA) Perfluorohexanoic Acid (PFHxA)

Perfluoroheptanoic Acid (PFHpA) Perfluorododecanoic Acid (PFDoA) Perfluorohexanesulfonic acid (PFHxS) Perfluorotridecanoic Acid (PFTrDA) Perfluorotetradecanoic Acid (PFTA) Perfluoroundecanoic Acid (PFUnA) 11-Chloroeicosafluoro-3oxaundecane-1-sulfonic acid (11CI-PF3OUdS) 4:2 Fluorotelomer sulfonic acid (4:2 FTS) 6:2 Fluorotelomer sulfonic acid (6:2 FTS) 8:2 Fluorotelomer sulfonic acid (8:2 FTS) 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9CI-PF3ONS) 4.8-dioxa-3Hperfluorononanoic acid (ADONA) HFPO-DA (Gen-X) Nonafluoro-3,6dioxaheptanoic acid (NFDHA) Perfluorobutanoic acid (PFBA) Perfluoro(2ethoxyethane)sulphonic acid (PFEESA) Perfluoroheptane sulfonic acid (PFHpS) Perfluoro-4-methoxybutanoic acid (PFMBA) Perfluoro-3methoxypropanoic acid (PFMPÁ) Perfluoropentanoic acid (PFPeA) Perfluoropentane sulfonic acid (PFPeS)



IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER Deferral Renewal Issued for 1,4-Dioxane to Liberty New York Water Merrick Operations District

Why are you receiving this notice/information?

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

The Liberty New York Water Merrick Operations District has submitted, and the New York State Department of Health (Department) has issued, a deferral to Liberty. When a public water system is issued a deferral, the water system agrees to a schedule for corrective action and compliance with the new MCLs. In exchange, the Department

agrees to defer enforcement actions, such as assessing fines, if the water system is meeting the established deadlines. We are required to update the Department and the Nassau County Department of Health each calendar quarter on the status of our projects. If we do not meet the agreed upon deadlines, the Department can resume enforcement.

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

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

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

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

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

What is being done to remove these contaminants?

Liberty New York Water is in the process of finalizing the contract for the construction of an advanced oxidation process (AOP) facility at its Seamans Neck Road Wells 3A and 4 facility. Iron Removal Facility (IRF) improvements are also being implemented at this well station, which are required in order for AOP treatment to be implemented. Regulatory review of two (2) booster pumping facilities needed to satisfy pressure requirements in the Seamans Neck Road vicinity is underway.

Liberty New York Water will operate the impacted wells in the Merrick Operations District in a last on first off sequence to the greatest extent practicable to minimize exposure to 1,4-Dioxane. Additional information will be shared as further testing and progress occurs. This process is similar for any chemical detected in public drinking water that requires mitigation. The compliance timetable will ensure that your drinking water will meet the MCL as rapidly as possible. The deferral is effective until August 25, 2023.

Where can I get more information?

For more information, please contact Liberty New York Water at (877) 426-6999 or 60 Brooklyn Avenue, Merrick, NY 11566. You can also contact the Nassau County Health Department at (516) 227-9697. If you have additional questions about these contaminants and your health, talk to your health care provider who is most familiar with your health history and can provide advice and assistance about understanding how drinking water may affect your personal health.

Public Water System ID# NY2902840 Date September 22, 2022



ATTACHMENT C

Water Quality Data

P	Pace
1	575 Broad Hollow Road, Melville, NY 11747

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

Client Sample ID.: N-07407

Lab No. : 70252815001

Type: Drinking Water Origin: Raw Well Routine

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID : 2902840 Collected : 04/13/2023 07:50 AM 04/13/2023 12:40 PM Received :

TEL: (516) 370-6000 FAX: (516) 886-5526

www.pacelabs.com

Point

N-07407 Location Jefferson 11 Well

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 300.0							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Chloride	3.6		1	mg/L	250	04/19/2023 11:40	001 BP3U1/1
Analytical Method:EPA 522		Prep Method:	EPA 522		Prep Date	04/18/2023 12:26	
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	Limit	Analyzed:	Container:
1,4-Dioxane (p-Dioxane)	<0.020		1	ug/L	1	04/19/2023 3:47 PM	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	106%		1	%REC		04/19/2023 3:47 PM	001 AG2R1/2
Analytical Method:EPA 524.2							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,3-Dichlorobenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,3-Dichloropropane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
1,4-Dichlorobenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
2,2-Dichloropropane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
2-Chlorotoluene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
4-Chlorotoluene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Benzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L	-	04/25/2023 6:13 PM	001 VG9C1/2
Bromoform	<0.50		1	ug/L		04/25/2023 6:13 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.

page 1 of 24

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

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Laboratory Results

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

Client Sample ID.: N-07407

Lab No. : 70252815001

Type: Drinking Water Origin: Raw Well Routine

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

 Federal ID :
 2902840

 Collected :
 04/13/2023 07:50 AM
 Point
 N-07407

 Received :
 04/13/2023 12:40 PM
 Location
 Jefferson 11 Well

www.pacelabs.com

TEL: (516) 370-6000 FAX: (516) 886-5526

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.

Bromomethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Chloroform	<0.50		1	ug/L		04/25/2023 6:13 PM	001 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		04/25/2023 6:13 PM	001 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Isopropylbenzene (Cumene)	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Methyl-tert-butyl ether	<0.50		1	ug/L	10	04/25/2023 6:13 PM	001 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Styrene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Toluene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	04/25/2023 6:13 PM	001 VG9C1/2
Trichloroethene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	04/25/2023 6:13 PM	001 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	04/25/2023 6:13 PM	001 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	92%		1	%REC		04/25/2023 6:13 PM	001 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	84%		1	%REC		04/25/2023 6:13 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.

page 2 of 24

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

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Laboratory Results

Results for the samples and analytes requested The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests Type: Drinking Water Origin: Treated Well Routine

> Treatment GAC

TEL: (516) 370-6000 FAX: (516) 886-5526 www.pacelabs.com Liberty-NY - Merrick OPS

60 Brooklyn Avenue

Merrick, NY 11566

Attn To : Natasha Niola

Federal ID : 2902840

Collected : 04/28/2023 11:30 AM

Received : 04/28/2023 04:45 PM

Collected By CLIENT

Sample Comments:

RUN TO WASTE

Lab No. : 70254575001 Client Sample ID.: GAC-3S/4S

Analytical Method:EPA 200.8							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Lead	<1.0		1	ug/L	15	05/10/2023 7:03 PM	001 BP4N1/1
Thallium	<0.30		1	ug/L	2	05/10/2023 7:03 PM	001 BP4N1/1
Analytical Method:EPA 300.0							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Chloride	14.7		1	mg/L	250	05/11/2023 7:44 PM	001 BP4U1/1
Analytical Method:EPA 522		Prep Method:	EPA 522		Prep Date	<u>e:</u> 05/05/2023 10:50	
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)	1.6*		1	ug/L	1	05/07/2023 11:45	001 AG2R1/2
Surr: 1,4-Dioxane-d8 (S)	102%		1	%REC		05/07/2023 11:45	001 AG2R1/2
Analytical Method:EPA 524.2							
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,1,1-Trichloroethane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,1,2,2-Tetrachloroethane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,1,2-Trichloroethane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,1,2-Trichlorotrifluoroethane	<0.50	N3	1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,1-Dichloroethane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,1-Dichloroethene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,1-Dichloropropene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,2,3-Trichlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,2,3-Trichloropropane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,2,4-Trichlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,2,4-Trimethylbenzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,2-Dichlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,2-Dichloroethane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,2-Dichloropropane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
1,3,5-Trimethylbenzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2

Qualifiers:

1,3-Dichlorobenzene

1,3-Dichloropropane

1,4-Dichlorobenzene

2,2-Dichloropropane

2-Chlorotoluene

4-Chlorotoluene

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.

<0.50

<0.50

<0.50

<0.50

<0.50

< 0.50

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.

page 1 of 21

ug/L

ug/L ug/L

ug/L

ug/L

ug/L

1

1

1

1

1

1

05/01/2023 4:59 PM

001 VG9C1/2

001 VG9C1/2

001 VG9C1/2

001 VG9C1/2

001 VG9C1/2

001 VG9C1/2

5

5

5

5

5

5

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

This report shall not be reproduced except in full, without the written approval of the laboratory.

AM Point GAO

Point GAC-3S/4S Location Seamanneck Wells 3/4



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: Treated Well Routine

> Treatment GAC

TEL: (516) 370-6000 FAX: (516) 886-5526 www.pacelabs.com

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID : 2902840

Collected : 04/28/2023 11:30 AM

Received : 04/28/2023 04:45 PM

Collected By CLIENT

Sample Comments:

RUN TO WASTE

Benzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Bromobenzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Bromochloromethane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Bromodichloromethane	<0.50		1	ug/L		05/01/2023 4:59 PM	001 VG9C1/2
Bromoform	<0.50		1	ug/L		05/01/2023 4:59 PM	001 VG9C1/2
Bromomethane	<0.50	L1	1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Carbon tetrachloride	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Chlorobenzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Chlorodifluoromethane	<0.50	N3	1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Chloroethane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Chloroform	<0.50		1	ug/L		05/01/2023 4:59 PM	001 VG9C1/2
Chloromethane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Dibromochloromethane	<0.50		1	ug/L		05/01/2023 4:59 PM	001 VG9C1/2
Dibromomethane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Dichlorodifluoromethane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Ethylbenzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Hexachloro-1,3-butadiene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
lsopropylbenzene (Cumene)	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Methyl-tert-butyl ether	<0.50	L1	1	ug/L	10	05/01/2023 4:59 PM	001 VG9C1/2
Methylene Chloride	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Styrene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Tetrachloroethene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Toluene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Total Trihalomethanes (Calc.)	<0.50		1	ug/L	80	05/01/2023 4:59 PM	001 VG9C1/2
Trichloroethene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Trichlorofluoromethane	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Vinyl chloride	<0.50		1	ug/L	2	05/01/2023 4:59 PM	001 VG9C1/2
cis-1,2-Dichloroethene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
cis-1,3-Dichloropropene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
m&p-Xylene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
n-Butylbenzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
n-Propylbenzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
o-Xylene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
p-Isopropyltoluene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
sec-Butylbenzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
tert-Butylbenzene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
trans-1,2-Dichloroethene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
trans-1,3-Dichloropropene	<0.50		1	ug/L	5	05/01/2023 4:59 PM	001 VG9C1/2
Surr: 1,2-Dichlorobenzene-d4 (S)	82%		1	%REC	-	05/01/2023 4:59 PM	001 VG9C1/2
Surr: 4-Bromofluorobenzene (S)	98%		1	%REC		05/01/2023 4:59 PM	001 VG9C1/2
	5070		•			1001 100	23 CCC // E

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.

page 2 of 21

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

This report shall not be reproduced except in full, without the written approval of the laboratory.

Lab No. : 70254575001 Client Sample ID.: GAC-3S/4S

GAC-3S/4S Location Seamanneck Wells 3/4

Point

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

WorkOrder :

70254575

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 #: 10478 Primary Accrediting Body Pennsylvania Certification #: 10478 Primary Accrediting Body Pennsylvania Certification #: 68-00350 Rhode Island Certification #: LAO00340 Virginia Certification # 460302

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

WorkOrder : 70254575

Additional Qualifiers

L1 - Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

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



May 22, 2023

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

Project Location: 1,4 DIOXANE/PFAS/CL/POC 4/28 Client Job Number: Project Number: 70254575 Laboratory Work Order Number: 23E0222

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

Sincerely,

and the second

Kaitlyn A. Feliciano Project Manager

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

REPORT DATE: 5/22/2023

SUB LAB

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70254575

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E0222

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

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

FIELD SAMPLE # GAC-3S/4S LAB ID: MATRIX 23E0222-01 Drinking Water SAMPLE DESCRIPTION

TEST EPA 533



CASE NARRATIVE SUMMARY

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

EPA 533

Qualifications:

PF-18

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

Analyte & Samples(s) Qualified:

M2-8:2FTS

23E0222-01[GAC-3S/4S]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-4:2FTS

S087798-CCV2

Z-01

Internal standard area >150% of associated calibration standard internal standard area.

Analyte & Samples(s) Qualified:

M2PFOA

23E0222-01[GAC-3S/4S]

M3PFBA

23E0222-01[GAC-3S/4S]

MPFOS

23E0222-01[GAC-3S/4S]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan S. Kelley

Meghan E. Kelley Reporting Specialist



Project Location: 1,4 DIOXANE/PFAS/CL/POC 4/2

Date Received: 5/2/2023

Field Sample #: GAC-3S/4S

Sample Matrix: Drinking Water

Sample ID: 23E0222-01

Sampled: 4/28/2023 11:30

Sample Description:

			Semivolatile C	Organic Co	npounds by - I	LC/MS-MS				
Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluoropetanesulfonic acid (PFPeS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 533	5/3/23	5/17/23 20:38	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	71.0	50-200		5/17/23 20:38
M2-8:2FTS	201 *	50-200	PF-18	5/17/23 20:38
MPFBA	75.5	50-200		5/17/23 20:38
M3HFPO-DA	53.7	50-200		5/17/23 20:38
M6PFDA	84.6	50-200		5/17/23 20:38
M3PFBS	111	50-200		5/17/23 20:38
M7PFUnA	90.0	50-200		5/17/23 20:38
M2-6:2FTS	101	50-200		5/17/23 20:38
M5PFPeA	75.1	50-200		5/17/23 20:38
M5PFHxA	69.1	50-200		5/17/23 20:38
M3PFHxS	120	50-200		5/17/23 20:38
M4PFHpA	73.7	50-200		5/17/23 20:38
M8PFOA	72.7	50-200		5/17/23 20:38
M8PFOS	111	50-200		5/17/23 20:38
M9PFNA	71.3	50-200		5/17/23 20:38
MPFDoA	90.6	50-200		5/17/23 20:38

Work Order: 23E0222



Sample Extraction Data

Prep Method:EPA 533 Analytical Method:EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E0222-01 [GAC-3S/4S]	B339147	250	1.00	05/03/23



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



Analyte	Domit	Reporting Limit	Unita	Spike Level	Source Result	0/DEC	%REC	רזממ	RPD Limit	Notor
analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B339147 - EPA 533										
LCS (B339147-BS1)		•	~	•	/03/23 Anal					
4,8-Dioxa-3H-perfluorononanoic acid ADONA)	2.02	2.0	ng/L	1.88		107	50-150			
Hexafluoropropylene oxide dimer acid	2.16	2.0	ng/L	2.00		108	50-150			
HFPO-DA) 3:2 Fluorotelomersulfonic acid (8:2FTS A)	2.19	2.0	ng/L	1.92		113	50-150			
Perfluorodecanoic acid (PFDA)	2.18	2.0	ng/L	2.00		113	50-150 50-150			
Perfluorododecanoic acid (PFDoA)	2.44 1.90	2.0	ng/L	2.00		94.9	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid	1.90	2.0	ng/L	1.78		102	50-150			
PFEESA) Perfluoroheptanesulfonic acid (PFHpS)	1.98	2.0	ng/L	1.91		104	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)		2.0	ng/L	1.91		104	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.01 1.96	2.0	ng/L	1.87		107	50-150 50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	2.14	2.0	ng/L	2.00		107	50-150 50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	2.14	2.0	ng/L	2.00		110	50-150			
5:2 Fluorotelomersulfonic acid (6:2FTS A)	1.91	2.0	ng/L	1.90		100	50-150			
Perfluoropetanesulfonic acid (PFPeS)	1.91	2.0	ng/L	1.88		97.8	50-150			
Perfluoroundecanoic acid (PFUnA)	2.47	2.0	ng/L	2.00		124	50-150			
Nonafluoro-3,6-dioxaheptanoic acid NFDHA)	2.04	2.0	ng/L	2.00		102	50-150			
Perfluoroheptanoic acid (PFHpA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorooctanoic acid (PFOA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.17	2.0	ng/L	1.85		112	50-150			
Perfluorononanoic acid (PFNA)	1.72	2.0	ng/L	2.00		86.2	50-150			
Surrogate: M2-4:2FTS	33.6		ng/L	37.5		89.5	50-200			
Surrogate: M2-8:2FTS	40.9		ng/L	38.4		107	50-200			
Surrogate: MPFBA	41.8		ng/L	40.0		105	50-200			
Surrogate: M3HFPO-DA	33.6		ng/L	40.0		84.0	50-200			
Surrogate: M6PFDA	44.0		ng/L	40.0		110	50-200			
Surrogate: M3PFBS	41.7		ng/L	37.3		112	50-200			
Surrogate: M7PFUnA	38.9		ng/L	40.0		97.3	50-200			
Surrogate: M2-6:2FTS	38.4		ng/L	38.0		101	50-200			
Surrogate: M5PFPeA	41.8		ng/L	40.0		105	50-200			
Surrogate: M5PFHxA	41.5		ng/L	40.0		104	50-200			
Surrogate: M3PFHxS	43.6		ng/L	37.9 40.0		115	50-200			
Surrogate: M4PFHpA Surrogate: M8PFOA	40.9 44.0		ng/L ng/L	40.0 40.0		102 110	50-200 50-200			
Surrogate: M8PFOA	44.0 41.5		ng/L ng/L	40.0 38.4		108	50-200 50-200			
Surrogate: M9PFNA	40.8		ng/L	40.0		108	50-200			
Surrogate: MPFDoA	41.6		ng/L	40.0		104	50-200			
LCS Dup (B339147-BSD1)				Prepared: 05	/03/23 Analy	yzed: 05/17/2	23			
Perfluorobutanoic acid (PFBA)	2.30	2.0	ng/L	2.00		115	50-150	0.805	30	
Perfluorobutanesulfonic acid (PFBS)	1.80	2.0	ng/L	1.77		102	50-150	7.65	30	
Perfluoropentanoic acid (PFPeA)	2.00	2.0	ng/L	2.00		100	50-150	8.65	30	
Perfluorohexanoic acid (PFHxA)	1.91	2.0	ng/L	2.00		95.4	50-150	8.15	30	
1Cl-PF3OUdS (F53B Major)	1.70	2.0	ng/L	1.88		90.3	50-150	2.66	30	
Cl-PF3ONS (F53B Minor)	2.04	2.0	ng/L	1.86		110	50-150	3.93	30	
4,8-Dioxa-3H-perfluorononanoic acid ADONA)	1.78	2.0	ng/L	1.88		94.7	50-150	12.6	30	
Hexafluoropropylene oxide dimer acid HFPO-DA)	1.95	2.0	ng/L	2.00		97.6	50-150	10.1	30	
3:2 Fluorotelomersulfonic acid (8:2FTS A)	1.77	2.0	ng/L	1.92		92.3	50-150	20.6	30	
Perfluorodecanoic acid (PFDA)	2.78	2.0	ng/L	2.00		139	50-150	12.8	30	
Perfluorododecanoic acid (PFDoA)	1.95	2.0	ng/L	2.00		97.7	50-150	2.90	30	



Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B339147 - EPA 533	Tresure	2	onto	20101	Trobuit	, under	Linno	nu b	2	110100
Baten B339147 - EPA 533										
LCS Dup (B339147-BSD1)				Prepared: 05	5/03/23 Anal	yzed: 05/17/2	23			
Perfluoro(2-ethoxyethane)sulfonic acid PFEESA)	1.71	2.0	ng/L	1.78		96.1	50-150	6.08	30	
Perfluoroheptanesulfonic acid (PFHpS)	2.11	2.0	ng/L	1.91		110	50-150	6.17	30	
:2 Fluorotelomersulfonic acid (4:2FTS A)	1.84	2.0	ng/L	1.87		98.3	50-150	8.65	30	
erfluorohexanesulfonic acid (PFHxS)	1.93	2.0	ng/L	1.83		106	50-150	1.42	30	
erfluoro-4-oxapentanoic acid (PFMPA)	2.03	2.0	ng/L	2.00		101	50-150	5.11	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	2.14	2.0	ng/L	2.00		107	50-150	3.09	30	
5:2 Fluorotelomersulfonic acid (6:2FTS A)	2.33	2.0	ng/L	1.90		122	50-150	19.8	30	
Perfluoropetanesulfonic acid (PFPeS)	1.72	2.0	ng/L	1.88		91.7	50-150	6.48	30	
Perfluoroundecanoic acid (PFUnA)	2.33	2.0	ng/L	2.00		116	50-150	6.02	30	
Jonafluoro-3,6-dioxaheptanoic acid NFDHA)	1.97	2.0	ng/L	2.00		98.7	50-150	3.15	30	
Perfluoroheptanoic acid (PFHpA)	2.14	2.0	ng/L	2.00		107	50-150	6.43	30	
Perfluorooctanoic acid (PFOA)	1.92	2.0	ng/L	2.00		95.8	50-150	15.7	30	
Perfluorooctanesulfonic acid (PFOS)	2.00	2.0	ng/L	1.85		108	50-150	8.46	30	
Perfluorononanoic acid (PFNA)	1.55	2.0	ng/L	2.00		77.3	50-150	10.9	30	
Surrogate: M2-4:2FTS	35.0		ng/L	37.5		93.3	50-200			
Surrogate: M2-8:2FTS	46.0		ng/L	38.4		120	50-200			
Surrogate: MPFBA	39.8		ng/L	40.0		99.5	50-200			
Surrogate: M3HFPO-DA	30.8		ng/L	40.0		77.1	50-200			
Surrogate: M6PFDA	39.4		ng/L	40.0		98.5	50-200			
Surrogate: M3PFBS	42.8		ng/L	37.3		115	50-200			
Surrogate: M7PFUnA	38.4		ng/L	40.0		96.0	50-200			
Surrogate: M2-6:2FTS	36.5		ng/L	38.0		95.8	50-200			
Surrogate: M5PFPeA	39.7		ng/L	40.0		99.3	50-200			
urrogate: M5PFHxA	39.1		ng/L	40.0		97.7	50-200			
urrogate: M3PFHxS	45.3		ng/L	37.9		119	50-200			
urrogate: M4PFHpA	41.4		ng/L	40.0		103	50-200			
urrogate: M8PFOA	40.8		ng/L	40.0		102	50-200			
urrogate: M8PFOS	40.0		ng/L	38.4		104	50-200			
Surrogate: M9PFNA	38.5		ng/L	40.0		96.2	50-200			
urrogate: MPFDoA	39.8		ng/L	40.0		99.5	50-200			



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

*	QC result is outside of established limits.
t	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
PF-18	Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.
S-29	Extracted Internal Standard is outside of control limits.
Z-01	Internal standard area >150% of associated calibration standard internal standard area.



CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

Minimulation Samples Pre-Logged into eCOC. State Of Origin: NY Workorder: 70254575 Workorder Name: 1,4 DIOXANE/PFAS/CL/POC 4/28 State Of Origin: NY Workorder: 70254575 Workorder Name: 1,4 DIOXANE/PFAS/CL/POC 4/28 Cert. Needed: X Workorder: 70254575 Workorder Name: 1,4 DIOXANE/PFAS/CL/POC 4/28 Owner Received Date: X Jennifer Aracri 38 Spruce St. Owner Received Date: 38 Spruce St. Detected: 38 Spruce St. Face Analytical Melville, NY 11747 Prone (631)594-3040 Sample (413)525-2332 Detected Containers Melville, NY 11747 Phone (631)594-3040 Preserved Containers Preserved Containers Item Sample ID Type Date/Time Lab ID Matrix Dift	In: NY .: X Yes No ved Date: 4/28/2023 Results Requested By: 5/15/2023 Requested Analysis Requested Analys
korder: 70254575 Workorder Name: 1,4 DIOXANE/PFAS/CL/POC 4/28 wilo subcontract To subcontract To ifer Aracri subcontract To 39 Spruce St. Broad Hollow Road 39 Spruce St. Fast Longmeadow, MA 01028 Broad Hollow Road 11747 Pace New England Broad Hollow Road 11747 Phone (413)525-2332 ne (631)694-3040 Sample ID Preserve	s No 4/28/2023 Results Requested By: Requested Analysis
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GAC-3S/4S PS 4/28/2023 11:30 70254575001 Drinking 1 1	
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Naural Mars Sup3 R.S. alla Male on25-2	25 Compound List
	Ice (V) or N Samples Intact() or N

uns iniormation is available in the owner laboratory. והימנפ 5

Monday, May 01, 2023 3:34:55 PM

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1

MC

FedEx* Tracking

DELIVERED

Tuesday

5/2/2023 at 9:30 am

Signed for by: A.MULLIER

 \pm Obtain Proof of delivery

DELIVERY STATUS

Delivered 🤡

 \downarrow Shipment is 1 of 2 pieces

TRACKING ID



FROM MELVILLE, NY US

Label Created 5/1/2023 5:12 PM

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

IN TRANSIT

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

OUT FOR DELIVERY

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

DELIVERED EAST LONGMEADOW, MA US

Delivered 5/2/2023 at 9:30 AM

 \downarrow View travel history

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

YOUR EMAIL

MORE OPTIONS

Manage Delivery

SUBMIT

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Chipe //www.leclex.com/ext-_____sgrite.c

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

FirstLUMLEROM-DODADS Touthie version Pricewist T-TS-SDSD

Log In Back-Sheet

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

PEOPLE ADVANCING SCIENC

Client Pace-Long Island		True False
Project PFAS 533-JG		
MCP/RCP Required NIA	Received on Ice	
Deliverable Package Req. NIA	Received in Cooler	
Location 1,4 DIOXANE/PEAS/CL/POC 4128	Custody Seal: DATE TIME	
PWSID# (When Applicable) NLA	COC Relinguished	
Arrival Method:	COC/Samples Labels Agree	
Courier Exer Exer Walk In Cother	All Samples in Good Condition	
Received By / Date / Time <u>AAM (5-2-23)</u> 0430	Samples Received within Holding Time	
Back-Sheet By / Date / Time AAM (5-2-23/1202	Is there enough Volume	
Temperature Method Temp Gun # 5	Proper Media/Container Used	
Temp	Splitting Samples Required	
Rush Samples: Yes /No Notify	MS/MSD	
Short Hold: Yes / No Notify	Trip Blanks	
Notes regarding Samples/COC outside of SOP:		
	Lab to Filters	
	COC Legible	
	COC Included: (Check all included)	
	Client 🗳 Analysis 🗳 Sa	Impler Name
		Impler Name
		Impler Name
	Project 🛛 IDs 🗹 Co	
	Project 🛛 IDs 🗹 Co	·
Container (Circle when applicable) UnP HCI HNO3 H25	Project 🛛 IDs 🗹 Co All Samples Proper pH: NA	
1L Amber Plastic	Project 🛛 IDs 🗹 Co All Samples Proper pH: NA	Dilection Date/Time
1L Amber Plastic 500 mL Amber Plastic	Project 2 IDs 2 Co All Samples Proper pH: NA 504 NaOH Trizma NaS2O3 Othe	Pollection Date/Time
1L Amber Plastic 500 mL Amber Plastic 250 mL Amber Plastic	Project 2 IDs 2 Co All Samples Proper pH: NA 504 NaOH Trizma NaS2O3 Othe	Dilection Date/Time
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L RUN TO SYSTEM	Treatment Types AST - Air Stripper GAC - Granular Activated Charcoal N - Nitrate Removal Plant FE - Iron Removal Plant O - Other	Lab No.				
TWELL OFF LINE	Origin DIreatu AST - AD- Distribution RW - Raw Well TW - Treated WellAST - ATW - Treated Well TW - Tank MW - Monitoring WellN- NI- Influent E- Effluent0	Analysis	C 1, 4 Dioxanc	DChlorides & POCION D Thallium & Lead		
ple Request Form LIC WATER SUPPLIER Date: 4/2 8/23 LBy: 4/2 8/23 d By: 6000 00	Purpose RO - Routine RE - Resample S - Special	Field Readings Cl ₂ pH/Temp	6.75			
Sample Request PUBLIC WATER SUPI Date: 4/2 8/23 Collected By: 600 Accepted By: 600 Cooler Temp: 500 °C	Sample Types PW - Potable Water GW - Groundwater SW - Surface Water WW - Waste Water AQ - Aqueous S - Soil	Origin Treatment Purpose	E GN RO			
575 Male	Ny 115146	Location	Stamon Nick ISAC GAC= 35/45			
MO#: 70254 WO#: 70254	rrick Restree	Sample Type	30 PW			
Client Info: Name or Code:	Phone #: Phone #: Attn: <u>Uakas</u> Proj. # or (Name): Bill To: Copies To: Samble Info:	Date/Time Collected:	4/28 11.30			Remarks:

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Pace® Analytical Services, LLC

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Qualtrax ID: 152532

<i>P</i> / 0	Sa	ample	Conditio	on Upon F	LON	:70	254	575
/ Pace Analytical	Client N	2000		r <mark>e</mark>				
	CHEIRIN	ANIA	11/		PM: JS	A	Due Da	ate: 05/10/23
	Tomm	VY/IL	Pace Dthe	or .	CLIENT	: NYAW		
Courier: Fed Ex UPS USPS				сı <u>с</u>				
Tracking #:		0.1.1	test OVe	ALL NO LEVILO	đ	Temperatu		resent: Yes No
Custody Seal on Cooler/Box Present:				s No N/A		-		
Packing Material: Bubble Wrap Bubble				ner v. 3	_	Type of Ice		
Thermometer Used: THO! TH148		ion Factor				•		g process has begun
Cooler Temperature(°C):	Cooler	Temperati	ure Correct			Date/lime	5035A Kits	placed in freezer
Temp should be above freezing to 6.0°C USDA Regulated Soil (IN/A, water sample	±]		> 3	Datecand Initia	als of per:	son examin	ing conter	15:5H 4/28/23
Did samples originate in a quarantine zone w	ithin the []	nited State	es: AL AR CA	, FL, GA, ID, LA, MS	S, NC,	Did samples	s orignate f	rom a foreign source
NM, NY, OK, OR, SC, TN, TX, or VA (check map)?		s 🗆 No		*				uerto Rico)? 🛛 Yes 🗆 No
If Yes to either question, fill out a Regulat			-11-C-010) a	nd include with				
			2. 0 010/0	1 2		COM	MENTS:	
Chain of Custody Present:	ElYes	DNo		1.				
Chain of Custody Filled Out:	ElYes			2				
Chain of Custody Relinquished:	Bres			3.				
			DN/A	4.		(e)		
Sampler Name & Signature on COC:	elles.		LIN/A	5.				5
Samples Arrived within Hold Time:	elles			6.				
Short Hold Time Analysis (<72hr):	Yes							<u> </u>
Rush Turn Around Time Requested:	DYes	INO		7.				
Sufficient Volume: (Triple volume provided fo				8.				
Correct Containers Used:	elles	⊡No		9.				2 ¹
-Pace Containers Used:	DYes	DNo						
Containers Intact:	ElYes	ΠNσ		10.			6 5 21	17
Filtered volume received for Dissolved tests	DYes	⊡No	EN/A		e if sedime	ent is visible	in the diss	olved container.
Sample Labels match COC:	Ves	⊡No		12.	3		(a) (4	5
-Includes date/time/ID/ Matrix -= SD/WT	ØIL====	• • • • •	the state of the second	e	<u> </u>	Francis	क्रिकरा	- Weinsteiner
All containers needing preservation have bee	n 🗆 Yes	⊡No	⊡N/A	13. OH	1NO3 I	⊐ H₂SO₄	🗆 NaOH	in HCl
checked? "Ha HC293	085	2	1					
pripaper LDC#				Samala #				
All containers needing preservation are found				Sample #				-
in compliance with method recommendation								
(HNO3, H₂SO₄, HCl, NaOH>9 Sulfide,	⊡Yes	⊡No ·	ON/A	1				
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NAOH>12 Cyanide)			20				24	
NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and C	irease,		2 2	1 - 1 - 1 - 1			9 	In a literation
NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and C DRD/8015 (water).			•	Initial when con		Lot # of add		Date/Time preservative
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NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and C DRD/8015 (water). Per Method, VOA pH is checked after analysis Samples checked for dechlorination: KI starch test strips Lot #. Residual chlorine strips Lot # SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot # Headspace in VOA Vials (>6mm): Trip Blank Present:	CIYes CIYes CIYes CIYes CIYes	⊡No ⊡No □No		14. 15. Positiv 16. 17.	ive for Res.	oreservative Chlorine? Y de? Y	: N N	
NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and C DRD/8015 (water). Per Method, VOA pH is checked after analysis Samples checked for dechlorination: KI starch test strips Lot #. Residual chlorine strips Lot # SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot # Headspace in VOA Vials (>6mm): Trip Blank Present: Trip Blank Custody Seals Present	CIYes CIYes CIYes CIYes CIYes	⊡No ⊡No □No		14. 15. 15. 16. 17. Field Data Requi	ive for Res.	preservative Chlorine? Y	: N N	
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NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and C DRD/8015 (water). Per Method, VOA pH is checked after analysis Samples checked for dechlorination: KI starch test strips Lot #. Residual chlorine strips Lot # SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot # Headspace in VOA Vials (>6mm): Trip Blank Present: Trip Blank Custody Seals Present Pace Trip Blank Lot # (if applicable): Client Notification/ Resolution:	CIYes CIYes CIYes CIYes CIYes	iNo INo No		14. 15. 15. 16. 17. Field Data Requi	ive for Res.	oreservative Chlorine? Y de? Y	: N N	
NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and C DRD/8015 (water). Per Method, VOA pH is checked after analysis Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot # SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot # Headspace in VOA Vials (>6mm): Trip Blank Present: Trip Blank Custody Seals Present Pace Trip Blank Lot # (if applicable): Client Notification/ Resolution: Person Contacted:	CIYes CIYes CIYes CIYes CIYes	iNo INo No		14. 15. 15. 16. 17. Field Data Requi	ive for Res.	oreservative Chlorine? Y de? Y	: N N	
NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and C DRD/8015 (water). Per Method, VOA pH is checked after analysis Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot # SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot # Headspace in VOA Vials (>6mm): Trip Blank Present: Trip Blank Custody Seals Present Pace Trip Blank Lot # (if applicable): Client Notification/ Resolution: Person Contacted:	CIYes CIYes CIYes CIYes CIYes	iNo INo No		14. 15. 15. 16. 17. Field Data Requi	ive for Res.	oreservative Chlorine? Y de? Y	: N N	
NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and C DRD/8015 (water). Per Method, VOA pH is checked after analysis Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot # SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot # Headspace in VOA Vials (>6mm): Trip Blank Present: Trip Blank Custody Seals Present Pace Trip Blank Lot # (if applicable): Client Notification/ Resolution: Person Contacted:	CIYes CIYes CIYes CIYes CIYes	iNo INo No		14. 15. 15. 16. 17. Field Data Requi	ive for Res.	oreservative Chlorine? Y de? Y	: N N	
NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and C DRD/8015 (water). Per Method, VOA pH is checked after analysis Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot # SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot # Headspace in VOA Vials (>6mm): Trip Blank Present: Trip Blank Custody Seals Present Pace Trip Blank Lot # (if applicable): Client Notification/ Resolution: Person Contacted:	Gives	ino ⊡No ⊡No		14. 15. Positiv 16. 17. Field Data Requi	ive for Res.	Chlorine? Y de? Y	: N N	

			Laboratory Results		ample Information:
Pace			Results for the samples and analytes requested 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: Origin:	Drinking Water Raw Well Routine
	Hollow Road, Melville, NY 1174				
TEL: (516)	370-6000 FAX: (516) 886-552 www.pacelabs				
Liberty-NY - M	lerrick OPS		Lab No. : 70256073001		
60 Brooklyn A	venue		Client Sample ID.: N-09338		
Merrick, NY 1	1566				
Attn To : Nata	sha Niola				
Federal ID :	2902840				
Collected :	05/11/2023 12:50 PM	Point	N-09338		
Received :	05/11/2023 05:45 PM	Location	Seamanneck 4 Well		
Collected By	CLIENT				
Sample Comr	nents:				
	e received on the same d ocess has begun.	ay of collec	tion on ice and are above 6 degrees Celcius.	Samples were placed on	ice by the lab and

Analytical Method:EPA 300.0							
Parameter(s)	Results	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Chloride	18.2		1	mg/L	250	05/18/2023 8:57 PM	001 BP1U1/1
Analytical Method:EPA 522		Prep Method:	EPA 522		Prep Date	9: 05/17/2023 11:15	
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)	1.6*		1	ug/L	1	05/18/2023 1:59 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 U - Indicates the compound was analyzed for, but not detected U

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

In Cur Jennifer Aracri

page 1 of 20

Test results meet the requirements of NELAC unless otherwise noted.

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

WorkOrder :

70256073

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 #: 10478 Primary Accrediting Body Pennsylvania Certification #: 10478 Primary Accrediting Body Pennsylvania Certification #: 68-00350 Rhode Island Certification #: LAO00340 Virginia Certification # 460302



May 23, 2023

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

Project Location: NYAW Client Job Number: Project Number: 70256073 Laboratory Work Order Number: 23E1927

Enclosed are results of analyses for samples as received by the laboratory on May 13, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

and the second

Kaitlyn A. Feliciano Project Manager

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

REPORT DATE: 5/23/2023

SUB LAB

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70256073

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E1927

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

PROJECT LOCATION: NYAW

FIELD SAMPLE #

N-09338

LAB ID: MATRIX 23E1927-01 Drinking Water SAMPLE DESCRIPTION

TEST EPA 533



CASE NARRATIVE SUMMARY

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

EPA 533

Qualifications:

В

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

6:2 Fluorotelomersulfonic acid (6:2FTS A)

B340332-BLK1, B340332-BS1, B340332-BSD1

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

Analyte & Samples(s) Qualified:

6:2 Fluorotelomersulfonic acid (6:2FTS A)

23E1927-01[N-09338]

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and

bias is on the high side. Analyte & Samples(s) Qualified:

M2-8:2FTS

23E1927-01[N-09338], B340332-BLK1

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-8:2FTS

B340332-BS1, B340332-BSD1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan S. Kelley

Meghan E. Kelley Reporting Specialist



Work Order: 23E1927

Project Location: NYAW

Date Received: 5/13/2023
Field Sample #: N-09338

Sample ID: 23E1927-01

Sample Matrix: Drinking Water

Sample Description:

			Semivolatile C	Organic Co	npounds by - I	LC/MS-MS				
			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1	B-05	EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	5/16/23	5/22/23 20:44	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	85.4	50-200		5/22/23 20:44
M2-8:2FTS	271 *	50-200	PF-17	5/22/23 20:44
MPFBA	88.3	50-200		5/22/23 20:44
M3HFPO-DA	73.9	50-200		5/22/23 20:44
M6PFDA	83.8	50-200		5/22/23 20:44
M3PFBS	109	50-200		5/22/23 20:44
M7PFUnA	78.8	50-200		5/22/23 20:44
M2-6:2FTS	115	50-200		5/22/23 20:44
M5PFPeA	85.2	50-200		5/22/23 20:44
M5PFHxA	74.3	50-200		5/22/23 20:44
M3PFHxS	110	50-200		5/22/23 20:44
M4PFHpA	73.3	50-200		5/22/23 20:44
M8PFOA	73.1	50-200		5/22/23 20:44
M8PFOS	108	50-200		5/22/23 20:44
M9PFNA	75.3	50-200		5/22/23 20:44
MPFDoA	82.4	50-200		5/22/23 20:44



Sample Extraction Data

Prep Method:EPA 533 Analytical Method:EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E1927-01 [N-09338]	B340332	284	1.00	05/16/23



Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B340332 - EPA 533										
Blank (B340332-BLK1)				Prepared: 05	5/16/23 Anal	yzed: 05/22/2	23			
Perfluorobutanoic acid (PFBA)	ND	1.9	ng/L	-						
Perfluorobutanesulfonic acid (PFBS)	ND	1.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.9	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.9	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	4.8	1.9	ng/L							В
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.9	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.9	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.9	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.9	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.9	ng/L							
Surrogate: M2-4:2FTS	31.2		ng/L	35.2		88.4	50-200			
Surrogate: M2-8:2FTS	115		ng/L	36.1		318 *	20 200			PF-17
Surrogate: MPFBA	35.2		ng/L	37.6		93.6	50-200			
Surrogate: M3HFPO-DA	37.6		ng/L	37.6		100	50-200			
Surrogate: M6PFDA	27.2		ng/L	37.6		72.4	50-200			
Surrogate: M3PFBS	37.3		ng/L	35.0		107	50-200			
Surrogate: M7PFUnA	25.5		ng/L	37.6		68.0	50-200			
Surrogate: M2-6:2FTS	41.3		ng/L	35.7		116	50-200			
Surrogate: M5PFPeA	33.9		ng/L	37.6		90.4	50-200			
Surrogate: M5PFHxA	33.3		ng/L	37.6		88.6	50-200			
Surrogate: M3PFHxS	38.2		ng/L	35.6		107	50-200			
Surrogate: M4PFHpA	32.6		ng/L	37.6		86.7	50-200			
Surrogate: M8PFOA	31.1		ng/L	37.6		82.8	50-200			
Surrogate: M8PFOS	39.2		ng/L	36.0		109	50-200			
Surrogate: M9PFNA	27.4		ng/L	37.6		73.0	50-200			
Surrogate: MPFDoA	27.0		ng/L	37.6		71.9	50-200			
LCS (B340332-BS1)					5/16/23 Anal	yzed: 05/22/2				
Perfluorobutanoic acid (PFBA)	10.0	1.9	ng/L	9.34		107	70-130			
Perfluorobutanesulfonic acid (PFBS)	8.29	1.9	ng/L	8.27		100	70-130			
Perfluoropentanoic acid (PFPeA)	9.42	1.9	ng/L	9.34		101	70-130			
Perfluorohexanoic acid (PFHxA)	9.37	1.9	ng/L	9.34		100	70-130			
11Cl-PF3OUdS (F53B Major)	9.00	1.9	ng/L	8.80		102	70-130			
9Cl-PF3ONS (F53B Minor)	10.1	1.9	ng/L	8.71		116	70-130			



Analyta	D	Reporting	Umit-	Spike Level	Source	0/DEC	%REC	רחמ	RPD Limit	Not
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B340332 - EPA 533										
LCS (B340332-BS1)				Prepared: 05	5/16/23 Analy	yzed: 05/22/2	23			
4,8-Dioxa-3H-perfluorononanoic acid	9.92	1.9	ng/L	8.80		113	70-130			
(ADONA) Hexafluoropropylene oxide dimer acid	0.54	1.9	ng/L	9.34		91.4	70-130			
(HFPO-DA)	8.54	1.9	ng/L	9.54		91.4	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	8.95	1.9	ng/L	8.97		99.8	70-130			
Perfluorodecanoic acid (PFDA)	9.03	1.9	ng/L	9.34		96.7	70-130			
Perfluorododecanoic acid (PFDoA)	9.70	1.9	ng/L	9.34		104	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	9.35	1.9	ng/L	8.31		113	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	8.33	1.9	ng/L	8.92		93.4	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.06	1.9	ng/L	8.73		92.3	70-130			
Perfluorohexanesulfonic acid (PFHxS)	8.60	1.9	ng/L	8.55		101	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	9.42	1.9	ng/L	9.34		101	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	9.88	1.9	ng/L	9.34		106	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	7.60	1.9	ng/L	8.87		85.6	70-130			В
Perfluoropetanesulfonic acid (PFPeS)	8.83	1.9	ng/L	8.78		101	70-130			
Perfluoroundecanoic acid (PFUnA)	9.86	1.9	ng/L	9.34		106	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.94	1.9	ng/L	9.34		95.7	70-130			
Perfluoroheptanoic acid (PFHpA)	9.27	1.9	ng/L	9.34		99.3	70-130			
Perfluorooctanoic acid (PFOA)	9.62	1.9	ng/L	9.34		103	70-130			
Perfluorooctanesulfonic acid (PFOS)	8.25	1.9	ng/L	8.64		95.5	70-130			
Perfluorononanoic acid (PFNA)	7.60	1.9	ng/L	9.34		81.4	70-130			
Surrogate: M2-4:2FTS	33.4		ng/L	35.0		95.2 285 *	50-200			g 20
Surrogate: M2-8:2FTS	102 37.9		ng/L	35.9 37.4		285 * 101	50-200 50-200			S-29
Surrogate: MPFBA Surrogate: M3HFPO-DA	37.6		ng/L ng/L	37.4 37.4		101	50-200 50-200			
Surrogate: M6PFDA	40.7		ng/L	37.4		101	50-200			
Surrogate: M3PFBS	36.5		ng/L	34.8		105	50-200			
Surrogate: M7PFUnA	36.1		ng/L	37.4		96.7	50-200			
Surrogate: M2-6:2FTS	41.6		ng/L	35.5		117	50-200			
Surrogate: M5PFPeA	38.6		ng/L	37.4		103	50-200			
Surrogate: M5PFHxA	34.7		ng/L	37.4		93.0	50-200			
Surrogate: M3PFHxS	35.8		ng/L	35.4		101	50-200			
Surrogate: M4PFHpA	35.1		ng/L	37.4		93.9	50-200			
Surrogate: M8PFOA	37.6		ng/L	37.4		101	50-200			
Surrogate: M8PFOS	37.3		ng/L	35.8		104	50-200			
Surrogate: M9PFNA	37.8		ng/L	37.4		101	50-200			
Surrogate: MPFDoA	34.5		ng/L	37.4		92.4	50-200			
LCS Dup (B340332-BSD1)				Prepared: 05	6/16/23 Analy	yzed: 05/22/2	23			
Perfluorobutanoic acid (PFBA)	9.91	1.9	ng/L	9.69		102	70-130	1.23	30	
Perfluorobutanesulfonic acid (PFBS)	8.44	1.9	ng/L	8.58		98.5	70-130	1.84	30	
Perfluoropentanoic acid (PFPeA)	9.64	1.9	ng/L	9.69		99.5	70-130	2.25	30	
Perfluorohexanoic acid (PFHxA)	9.30	1.9	ng/L	9.69		96.0	70-130	0.669	30	
11Cl-PF3OUdS (F53B Major)	9.29	1.9	ng/L	9.13		102	70-130	3.23	30	
9Cl-PF3ONS (F53B Minor)	9.80	1.9	ng/L	9.03		109	70-130	2.70	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.30	1.9	ng/L	9.13		102	70-130	6.46	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.48	1.9	ng/L	9.69		87.5	70-130	0.674	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	9.64	1.9	ng/L	9.30		104	70-130	7.42	30	
Perfluorodecanoic acid (PFDA)	8.71	1.9	ng/L	9.69		89.9	70-130	3.66	30	
Perfluorododecanoic acid (PFDoA)	9.93	1.9	ng/L	9.69		102	70-130	2.33	30	



Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B340332 - EPA 533										
LCS Dup (B340332-BSD1)				Prepared: 05	5/16/23 Anal	yzed: 05/22/2	23			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	9.41	1.9	ng/L	8.63		109	70-130	0.570	30	
Perfluoroheptanesulfonic acid (PFHpS)	8.01	1.9	ng/L	9.25		86.5	70-130	3.94	30	
:2 Fluorotelomersulfonic acid (4:2FTS A)	8.31	1.9	ng/L	9.06		91.7	70-130	3.06	30	
Perfluorohexanesulfonic acid (PFHxS)	8.43	1.9	ng/L	8.87		95.1	70-130	2.02	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	9.24	1.9	ng/L	9.69		95.3	70-130	1.99	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	9.90	1.9	ng/L	9.69		102	70-130	0.237	30	
5:2 Fluorotelomersulfonic acid (6:2FTS A)	8.24	1.9	ng/L	9.21		89.5	70-130	8.13	30	В
Perfluoropetanesulfonic acid (PFPeS)	8.42	1.9	ng/L	9.11		92.4	70-130	4.85	30	
Perfluoroundecanoic acid (PFUnA)	10.1	1.9	ng/L	9.69		104	70-130	2.67	30	
Nonafluoro-3,6-dioxaheptanoic acid NFDHA)	8.83	1.9	ng/L	9.69		91.1	70-130	1.17	30	
Perfluoroheptanoic acid (PFHpA)	9.15	1.9	ng/L	9.69		94.5	70-130	1.28	30	
Perfluorooctanoic acid (PFOA)	9.73	1.9	ng/L	9.69		100	70-130	1.14	30	
Perfluorooctanesulfonic acid (PFOS)	8.98	1.9	ng/L	8.96		100	70-130	8.52	30	
Perfluorononanoic acid (PFNA)	7.89	1.9	ng/L	9.69		81.4	70-130	3.66	30	
Surrogate: M2-4:2FTS	29.1		ng/L	36.4		80.0	50-200			
Surrogate: M2-8:2FTS	95.1		ng/L	37.2		256 *	50-200			S-29
Surrogate: MPFBA	31.4		ng/L	38.8		81.1	50-200			
Surrogate: M3HFPO-DA	30.8		ng/L	38.8		79.4	50-200			
Surrogate: M6PFDA	37.6		ng/L	38.8		97.0	50-200			
Surrogate: M3PFBS	36.3		ng/L	36.1		100	50-200			
Surrogate: M7PFUnA	32.7		ng/L	38.8		84.4	50-200			
Surrogate: M2-6:2FTS	38.0		ng/L	36.9		103	50-200			
Surrogate: M5PFPeA	30.7		ng/L	38.8		79.2	50-200			
Surrogate: M5PFHxA	29.8		ng/L	38.8		76.9	50-200			
Surrogate: M3PFHxS	36.3		ng/L	36.7		98.7	50-200			
Surrogate: M4PFHpA	30.6		ng/L	38.8		79.0	50-200			
Surrogate: M8PFOA	32.1		ng/L	38.8		82.7	50-200			
Surrogate: M8PFOS	36.3		ng/L	37.2		97.6	50-200			
Surrogate: M9PFNA	33.2		ng/L	38.8		85.5	50-200			
Surrogate: MPFDoA	31.4		ng/L	38.8		80.9	50-200			



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

*	QC result is outside of established limits.
Ť	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
В	Analyte is found in the associated laboratory blank as well as in the sample.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

S-29 Extracted Internal Standard is outside of control limits.



CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

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575 Broad Melville, N	575 Broad Hollow Road Melville, NY 11747		East	East Longmeadow, MA 01028 Phone (413)525-2332	MA 01028 32									
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page 14 of 20

39 Spruce St. East Longmeadow, I/A. 01028 P: 413-525-2332 F:413-525-6405 www.pacelabs.com	LOG Login Sample Re – Using Acceptar	In Back	Rejection Criteria Listing se statement will be		PEOPLE A	CO [®]
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Deliverable Package Requirement		Received in Co	ooler		<u>X</u>	
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Rush Samples: Yes / No Notify		MS/MSD				X
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Notes regarding Samples/COC outsi	ide of SOP:	Lab to Filters				Ø
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FedEx[®] Tracking

DELIVERED



5/13/2023 at 10:05 am

Signed for by: LOUIS

 \pm Obtain Proof of delivery

How was your delivery?

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delivery status Delivered 🔗

↓ Shipment is 1 of 2 pieces

TRACKING ID 647678499108 🖉 🟠

FROM

MELVILLE, NY US

Label Created 5/12/2023 4:23 PM

PACKAGE RECEIVED BY FEDEX MELVILLE, NY 5/12/2023 5:45 PM

IN TRANSIT

WINDSOR LOCKS, CT 5/13/2023 9:03 AM

OUT FOR DELIVERY

WINDSOR LOCKS, CT 5/13/2023 9:03 AM

DELIVERED EAST LONGMEADOW, MA US

Delivered 5/13/2023 at 10:05 AM

↓ View travel history

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

YOUR EMAIL

MORE OPTIONS

SUBMIT

Sentin a Laga

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page 18 of 20

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Pace® Analytical Services, LLC

Page 1 of 1

Cualirax ID: 152532

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Did samples originate in a quarantine zone w		$B_{\rm S}$ \Box No	S. AL AIL OF	ג דב טאק זטן טאן דוס, ד *	includion Ha	wai and Pi	Jerto Rico)? Yes
NM, NY, OK, OR, SC, TN, TX, or VA (check map) If Yes to either question, fill out a Regulat		es Uno hacklist (F-		nd include with S	CIIR/COC nanerwor	k	
		iiconiist (i			COM	MENTS:	8
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Chain of Custody Filled Out:	ElYes			2			
Chain of Custody Relinquished:	ElYes			. 3.		(8) (8)	
Sampler Name & Signature on COC:	Bres.	No	DN/A	4.			
Samples Arrived within Hold Time:	Dies	⊡No		5.			
Short Hold Time Analysis (<72hr):	Yes	DNO -		6.			
Rush Turn Around Time Requested:	⊡Yes	ENO		7.			
Sufficient Volume: (Triple volume provided fo	r lettes	⊡No		8.			
Correct Containers Used:	Difes	±No -		9.			s
-Pace Containers Used:	Diffes	<u> </u>					
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Sample Labels match COC:	Talles	=- No		12			
Includes date/time/10, Matrix St./// All containers needing preservation have bee	and the second se	⊡No	- OHA	13. 🗆 HNO	D ₃ ĊH _z SO ₄	□ NaOH	L HCT
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All containers needing preservation are found	d to be			Sample #			
in compliance with method recommendation			~				<u>u</u> .
(HNO3, HzSO4, HCI, NaOH>9 Sulfide,	⊡Yes	⊡No	DINA				
NAOH>12 Cyanide)			ě.			(2 8)	*
Exceptions: VOA, Coliform, TOC/DOC, Oil and D	Grease,		200	Initial when come	leted: Lot # of adde	ä	Date/Time preservative
DRO/8015 (water).			5 6 7	nniuai when comp	preservative:	iu -	added:
Per Method, VOA pH is checked after analysis	S ⊡Yes	⊡No	QUA	14.	preservauve.		lungan
Samples checked for dechlorination: KI starch test strips Lot #.	LIES		- And w				
Residual chlorine strips Lot #	a (a. 		2	Positive	for Res. Chlorine? Y	N	
SM 4500 CN samples checked for sulfide?	ElYes	ΠNο	OMA:	15.			
Lead Acetate Strips Lot #					for Sulfide? Y	N	
Headspace in VOA Vials (>6mm):	⊡Yes	⊡No	DN/A	16.			
Trip Blank Present-	DYes	⊡No	DH/A	17		i e	
Trip Blank Custody Seals Present	⊡Yes	□No	DH/A				
Pace Trip Blank Lot # (if applicable):			(*)	1		÷.	
and the second				Field Data Require		/ N	
Client Notification/ Resolution:				Date/1	ime:		
Client Notification/ Resolution: Person Contacted:							
Client Notification/ Resolution: Person Contacted: Comments/ Resolution:			1				
Client Notification/ Resolution: Person Contacted:)*				
Client Notification/ Resolution: Person Contacted:) /				



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

Client Sample ID.: N-14347

Lab No. : 70257464001

Type: Drinking Water Origin: Raw Well Routine

Liberty-NY - Merrick OPS 60 Brooklyn Avenue

Merrick, NY 11566

Attn To: Natasha Niola

Federal ID : 2902840

Collected : 05/24/2023 08:15 AM 05/24/2023 02:47 PM

TEL: (516) 370-6000 FAX: (516) 886-5526

Received :

Collected By CLIENT

Sample Comments:

REVISION 1: Report re-issued on June 23, 2023 to correct client ID.

Point

N-14347

Location Seaman Neck #3A

www.pacelabs.com

Analytical Method: EPA 300.0						
Parameter(s)	<u>Results</u>	Qualifier D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
Chloride	17.1	1	mg/L	250	06/12/2023 5:18 PM	001 BP4U1/1
Analytical Method: EPA 522		Prep Method: EPA 522		Prep Date	05/26/2023 12:32	
Parameter(s)	<u>Results</u>	Qualifier D.F.	<u>Units</u>	<u>Limit</u>	Analyzed:	Container:
1,4-Dioxane (p-Dioxane) Surr: 1,4-Dioxane-d8 (S)	<mark>2.2*</mark> 101%	<mark>1</mark> 1	<mark>ug/L</mark> %REC	1	05/27/2023 2:19 AM 05/27/2023 2:19 AM	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.

page 1 of 20

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

This report shall not be reproduced except in full, without the written approval of the laboratory.

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

WorkOrder :

70257464

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 #: 10478 Primary Accrediting Body Pennsylvania Certification #: 10478 Primary Accrediting Body Pennsylvania Certification #: 68-00350 Rhode Island Certification #: LAO00340 Virginia Certification # 460302

Public water supplier Date: Date: D	Sample Types Purpose Origin Treatment Types PW - Potable Water RO - Routine D - Distribution AST - Air Stripper FW - Structure Water RO - Routine D - Distribution AST - Air Stripper GW - Groundwater RE - Resample RW - Rew Well AST - Air Stripper SW - Surface Water S - Special TW - Treated Well N - Nitrate Removal Plant WW - Waste Water AQ - Aqueous I - Influent O - Other AQ - Aqueous I - Influent O - Other O - Other S - Soil I - Influent O - Other O - Other	ation Origin Treatment Purpose Field Readings Analysis Lab No.	ULEX 22 20 100 100 100 100 100 100 100 100 1
Samp PUBLI Dat Collected E Accepted E Cooler Tem			
WO#: 70257464	Ny 11566 Viola	Location	Scanna Neck 34 N-08031
MO# : 70257 WO# : 70257 10257464 10257464 10257464 10257464 10257464 10257464 10257464 10257464 1025777464 1025777464 1025777777777777777777777777777777777777	limice laska	Sample Type	
Client Info: Name or Code:	nfo:	Date/Time Collected:	Remarks:

page 4 of 20

	120	Γ	Γ
Client: L1 533 CL STON 000	Profile #:of	Luse Point Number Spreadsheet	Multiday Project
VC31	Bb31 Bb32 Bb33 Bb33 Bb34 Bb4 Bb4 <	EM Sbrc WCDN; WCNN;	200C
Additional Commerce With the second	Pfastic Misc: Misc: 125mit unpreserved plastic SP5T 120mit Coliform Na Thio 250mit unpreserved plastic SP3T 120mit Coliform Na Thio 260mit unpreserved plastic NG2U 20 Unpreserved Jar 600mit unpreserved plastic NG2U 20 Unpreserved Jar 11 Unpreserved Jar AG2U 250mit HN03 plastic NG2U 20 Unpreserved Jar 250mit HN03 plastic NG2U 20 Unpreserved Jar 250mit HN03 plastic ZPLC Zlplock Baq 250mit HN204 plastic Glar VGBT 250mit HN03 plastic Zelar Bag VGBT 250mit HN03 plastic Zelar Bag VGBT 250mit HN03 plastic Zelar Bag VGBT 250mit HN45O4-NH40H Ntpe VGBT 250mit MH45O4-NH40H Kope VGBT 250	BP1U Itumpreserved plastic BP3U 250mL Hunds plastic BP3U 250mL Hunds plastic BP3C 250mL Hunds plastic BP3C 250mL Nucs plastic BP3C 250mL Nucs plastic BP3C 250mL Nucs plastic BP3C 250mL Nucs plastic AG2U 50mL unpres amber glass AC3U 50mL unpres amber glass Con also to a BP4N NL Con also to a BP4N NL CG5A 40mL Na Thio amber vial DC5A 40mL Na Thio amber vial DC5A 40mL unpres amber glass AC31 250mL unpres amber glass AC31 255mL unpres amber glass AC31 255mL unpres amber glass	Liquid
	WOH: 70257464 PM: JSA Due Date: 06. CLIENT: NYAW Due Date: 06.	257464 Due Date: 06/09/23	

DC#_Title: EKV-FRM-MELV-0148 v1_Sample Container Count Melville Effective Date: 4/10/2023 Pace® Analytical Services, LLC

Page 1 of 1

Qualitax ID: 152532

	WO#:70257464
Client Name:	Project# PM: JSA Due Date: 06/09/23
Courier: Fed Ex UPS USPS Client Commercia	Pace Other CLIENT: NYAW
Tracking #:	
Custody Seal on Cooler/Box Present:	ntact: □ Yes □ No Temperature Blank Present: □ Yes □ No □ None □ Other Type of Ice: Wet Blue None
Thermometer Used: 14 4 % Correction Factor: Cooler Temperature(°C): 4.% Cooler Temperature Co Temp should be above freezing to 6.0°C	Dirrected(°C)/1-5 Date/Time 5035A kits placed in freezer
USDA Regulated Soil (N/A, water sample)	THE AD ON FLICA ID TA MONO NA NY OV OD OC THITY
	tates: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, k map)? □ Yes □ No
· · · · · · · · · · · · · · · · · · ·	e including Hawaii and Puerto Rico)? Yes No
	-
If Yes to either question, fill out a Regulated Soll Check	Date and Initials of person examining contents:
	a) 2010/
Chair of Quetody Descents	COMMENTS: / / / S
Chain of Custody Present: Types DNo Chain of Custody Filled Out: Yes DNo	2.
Chain of Custody Relinquished:	3.
Sampler Name & Signature on COC; ∎Yes □No □N/A	4.
Samples Arrived within Hold Time: Thes DNo	5.
Short Hold Time Analysis (<72hr): □Yes No	6.
Rush Turn Around Time Requested DYes ONO	7.
Sufficient Volume: (Triple volume ∎Yes □Ňo provided for MS/MSD)	8.
Correct Containers Used:	9.
-Pace Containers Used:	
Containers Intact: Yes DNo	10.
Filtered volume received for DYes No DN/A	11. Note: if sediment is visible in the dissolved container.
Dissolved tests	
Sample Labels match COC: OYes ONO	12.
-Includes date/time/ID/Analysit Matrix: SL WOOL OTHER	Date and Initials of person checking preservation: R7 5 70
Prove and the second seco	
All containers needing preservation _Yes _No _N/A	13. □ HNO ₃ □ H ₂ SO ₄ □ NaOH □ HCI
have been pH paper Lot #	Sample
All containers needing preservation are found to be	#
in compliance with method recommendation?	
(HNO ₃ , H ₂ SO ₄ , HCI, NaOH>9 Sulfide, □Yes □No DN/A	
NAOH>12 Cyanide)	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	Initial when completed: Lot # of added Date/Time preservative added:
Per Method, VOA pH is checked after analysis	preservative:
Samples checked for dechlorination: _Yes _No _N/A	14
KI starch test strips Lot #	
Residual chlorine strips Lot #	Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul ges GNO CN/A	15.
Lead Acetate Strips Lot #	Positive for Sulfide? Y N
Headspace in VOA Vials (>6mm): □Yes No □N/A Trip Blank Present: □Yes No □N/A	16.
Trip Blank Custody Seals Present PYes No NA	20
Client Notification/ Resolution:	Field Data Required? Y / N
Person Contacted:	Date/Time:
Comments/ Resolution	
······	
· · · · · · · · · · · · · · · · · · ·	

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

Page 1 of 1



June 6, 2023

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

Project Location: 1,4DIOX/533/CL 5/24 Client Job Number: Project Number: 70257464 Laboratory Work Order Number: 23E3610

Enclosed are results of analyses for samples as received by the laboratory on May 26, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

and the second

Kaitlyn A. Feliciano Project Manager

Table of Contents

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332											
Pace Analytical Services - L	ong Island, NY										
575 Broad Hollow Road					REPORT DATE: 6/6/2023						
Melville, NY 11747			PURCHASE ORDER NUMBER	:							
ATTN: Jennifer Aracri											
			PROJECT NUMBER: 70257	464							
	ANALYTICAL SUMMARY										
			WORK O	RDER NUMBER:	23E3610						
The results of analyses perfe	ormed on the following sam	ples submitted to CON	I-TEST, a Pace Analytical Laboratory, are found in th	nis report.							
PROJECT LOCATION:	1,4DIOX/533/CL 5/24										
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB						

N-08031

23E3610-01 Drinking Water

EPA 533

page 9 of 20



CASE NARRATIVE SUMMARY

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

Qualifications:

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side. Analyte & Samples(s) Qualified:

M2-8:2FTS

23E3610-01[N-08031]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

fua Wattheasta

Lisa A. Worthington Technical Representative



Work Order: 23E3610

Project Location: 1,4DIOX/533/CL 5/24

Date Received: 5/26/2023

Field Sample #: N-08031

Sample ID: 23E3610-01
Sample Matrix: Drinking Water

Sampled: 5/24/2023 08:15

Sample Description:

			Semivolatile C	rganic Cor	npounds by - I	LC/MS-MS				
			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluorobutanesulfonic acid (PFBS)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluoropentanoic acid (PFPeA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluorohexanoic acid (PFHxA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluoroheptanoic acid (PFHpA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluorooctanoic acid (PFOA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluorooctanesulfonic acid (PFOS)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	6/1/23	6/2/23 15:07	JR2

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	83.7	50-200		6/2/23 15:07
M2-8:2FTS	240 *	50-200	PF-17	6/2/23 15:07
MPFBA	88.7	50-200		6/2/23 15:07
M3HFPO-DA	87.8	50-200		6/2/23 15:07
M6PFDA	89.2	50-200		6/2/23 15:07
M3PFBS	92.3	50-200		6/2/23 15:07
M7PFUnA	80.9	50-200		6/2/23 15:07
M2-6:2FTS	108	50-200		6/2/23 15:07
M5PFPeA	85.5	50-200		6/2/23 15:07
M5PFHxA	77.9	50-200		6/2/23 15:07
M3PFHxS	85.9	50-200		6/2/23 15:07
M4PFHpA	83.0	50-200		6/2/23 15:07
M8PFOA	88.0	50-200		6/2/23 15:07
M8PFOS	86.8	50-200		6/2/23 15:07
M9PFNA	92.8	50-200		6/2/23 15:07
MPFDoA	81.7	50-200		6/2/23 15:07



Sample Extraction Data

Prep Method:EPA 533 Analytical Method:EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3610-01 [N-08031]	B341897	286	1.00	06/01/23



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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341897 - EPA 533										
Blank (B341897-BLK1)				Prepared: 06	/01/23 Analy	zed: 06/02/2	23			
Perfluorobutanoic acid (PFBA)	ND	2.1	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.1	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.1	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.1	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	2.1	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	2.1	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid	ND	2.1	ng/L							
(ADONA) Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.1	ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.1	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.1	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.1	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.1	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.1	ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.1	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.1	ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.1	ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.1	ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.1	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	2.1	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.1	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.1	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.1	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.1	ng/L							
Surrogate: M2-4:2FTS	43.0		ng/L	39.3		109	50-200			
Surrogate: M2-8:2FTS	68.1		ng/L	40.2		169	50-200			
Surrogate: MPFBA	42.3		ng/L	41.9		101	50-200			
Surrogate: M3HFPO-DA	43.3		ng/L	41.9		103	50-200			
Surrogate: M6PFDA	37.6		ng/L	41.9		89.8	50-200			
Surrogate: M3PFBS	42.9		ng/L	39.0		110	50-200			
Surrogate: M7PFUnA	33.9		ng/L	41.9		80.8	50-200			
Surrogate: M2-6:2FTS	57.1		ng/L	39.8		143	50-200			
Surrogate: M5PFPeA Surrogate: M5PFHxA	42.0 38.6		ng/L ng/I	41.9		100 92.1	50-200 50-200			
Surrogate: MSPFHXA Surrogate: M3PFHxS	38.6 41.1		ng/L ng/L	41.9 39.7		92.1 104	50-200 50-200			
Surrogate: M3PFHXS Surrogate: M4PFHpA	41.1 39.9		ng/L ng/L	41.9		95.3	50-200 50-200			
Surrogate: MAPFOA	40.3		ng/L	41.9		95.3 96.3	50-200 50-200			
Surrogate: M8PFOS	42.6		ng/L	40.2		106	50-200 50-200			
Surrogate: M9PFNA	42.6		ng/L	41.9		100	50-200			
Surrogate: MPFDoA	33.6		ng/L	41.9		80.1	50-200			
LCS (B341897-BS1)				Prepared: 06	/01/23 Analy	yzed: 06/02/2	23			
Perfluorobutanoic acid (PFBA)	11.0	2.1	ng/L	10.5		105	70-130			
Perfluorobutanesulfonic acid (PFBS)	9.21	2.1	ng/L	9.25		99.6	70-130			
Perfluoropentanoic acid (PFPeA)	10.5	2.1	ng/L	10.5		101	70-130			
Perfluorohexanoic acid (PFHxA)	10.4	2.1	ng/L	10.5		100	70-130			
11Cl-PF3OUdS (F53B Major)	9.46	2.1	ng/L	9.84		96.1	70-130			



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

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

Applute	Domit	Reporting Limit	Unita	Spike Level	Source	0/DEC	%REC	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	ĸľD	Limit	Notes
Batch B341897 - EPA 533					104 18 -					
LCS (B341897-BS1)		2.1			/01/23 Analy					
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.38	2.1	ng/L	9.84		95.3	70-130			
Hexafluoropropylene oxide dimer acid	8.76	2.1	ng/L	10.5		83.8	70-130			
(HFPO-DA) 8:2 Fluorotelomersulfonic acid (8:2FTS A)	0.04	2.1	ng/L	10.0		98.1	70-130			
Perfluorodecanoic acid (PFDA)	9.84	2.1	ng/L	10.0		98.1 98.6	70-130			
Perfluorododecanoic acid (PFDA)	10.3	2.1	ng/L	10.5		98.0 105	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid	11.0 9.22	2.1	ng/L	9.30		99.1	70-130			
PFEESA)	9.22	2.1	ng 1	9.50		<i>))</i> .1	/0-150			
Perfluoroheptanesulfonic acid (PFHpS)	8.87	2.1	ng/L	9.98		88.9	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.97	2.1	ng/L	9.77		91.8	70-130			
Perfluorohexanesulfonic acid (PFHxS)	9.33	2.1	ng/L	9.56		97.6	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	9.68	2.1	ng/L	10.5		92.6	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	9.41	2.1	ng/L	10.5		90.1	70-130			
5:2 Fluorotelomersulfonic acid (6:2FTS A)	7.95	2.1	ng/L	9.93		80.1	70-130			
Perfluoropentanesulfonic acid (PFPeS)	9.86	2.1	ng/L	9.82		100	70-130			
Perfluoroundecanoic acid (PFUnA)	10.8	2.1	ng/L	10.5		103	70-130			
Nonafluoro-3,6-dioxaheptanoic acid	9.19	2.1	ng/L	10.5		88.0	70-130			
NFDHA)										
Perfluoroheptanoic acid (PFHpA)	10.1	2.1	ng/L	10.5		97.0	70-130			
Perfluorooctanoic acid (PFOA)	10.3	2.1	ng/L	10.5		98.4	70-130			
Perfluorooctanesulfonic acid (PFOS)	9.79	2.1	ng/L	9.67		101	70-130			
Perfluorononanoic acid (PFNA)	8.54	2.1	ng/L	10.5		81.8	70-130			
Surrogate: M2-4:2FTS	41.6		ng/L	39.2		106	50-200			
Surrogate: M2-8:2FTS	73.7		ng/L	40.1		184	50-200			
Surrogate: MPFBA	41.7		ng/L	41.8		99.8	50-200			
Surrogate: M3HFPO-DA	40.3		ng/L	41.8		96.5	50-200			
Surrogate: M6PFDA	40.5		ng/L	41.8		96.8	50-200			
Surrogate: M3PFBS	41.5		ng/L	39.0		107	50-200			
Surrogate: M7PFUnA	35.8		ng/L	41.8		85.6	50-200			
Surrogate: M2-6:2FTS	51.3		ng/L	39.8		129	50-200			
Surrogate: M5PFPeA	41.9		ng/L	41.8		100	50-200			
Surrogate: M5PFHxA	37.6		ng/L	41.8		89.9	50-200			
Surrogate: M3PFHxS	40.4		ng/L	39.6		102	50-200			
Surrogate: M4PFHpA	39.6		ng/L	41.8		94.8	50-200			
Surrogate: M8PFOA	41.4		ng/L	41.8		99.1	50-200			
Surrogate: M8PFOS	41.4		ng/L	40.1		103	50-200			
Surrogate: M9PFNA Surrogate: MPFDoA	42.1 34.7		ng/L ng/L	41.8 41.8		101 82.9	50-200 50-200			
-	57.7		ng/L							
LCS Dup (B341897-BSD1)		• • •	. /*	-	/01/23 Analy					
Perfluorobutanoic acid (PFBA)	10.4	2.0	ng/L	9.95		105	70-130	5.04	30	
Perfluorobutanesulfonic acid (PFBS)	8.64	2.0	ng/L	8.81		98.1	70-130	6.48	30	
Perfluoropentanoic acid (PFPeA)	10.2	2.0	ng/L	9.95		102	70-130	3.60	30	
Perfluorohexanoic acid (PFHxA)	9.96	2.0	ng/L	9.95		100	70-130	4.77	30	
1Cl-PF3OUdS (F53B Major)	9.75	2.0	ng/L	9.37		104	70-130	3.09	30	
Cl-PF3ONS (F53B Minor)	9.45	2.0	ng/L	9.27		102	70-130	5.53	30	
I,8-Dioxa-3H-perfluorononanoic acid ADONA)	8.87	2.0	ng/L	9.37		94.6	70-130	5.61	30	
Hexafluoropropylene oxide dimer acid HFPO-DA)	7.87	2.0	ng/L	9.95		79.1	70-130	10.6	30	
3:2 Fluorotelomersulfonic acid (8:2FTS A)	8.64	2.0	ng/L	9.55		90.4	70-130	13.1	30	
Perfluorodecanoic acid (PFDA)	9.36	2.0	ng/L	9.95		94.1	70-130	9.65	30	
Perfluorododecanoic acid (PFDoA)	10.3	2.0	ng/L	9.95		103	70-130	6.69	30	



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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341897 - EPA 533										
LCS Dup (B341897-BSD1)				Prepared: 06	5/01/23 Analy	yzed: 06/02/2	23			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	8.82	2.0	ng/L	8.86		99.7	70-130	4.39	30	
Perfluoroheptanesulfonic acid (PFHpS)	9.02	2.0	ng/L	9.50		94.9	70-130	1.66	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	7.79	2.0	ng/L	9.30		83.8	70-130	14.1	30	
Perfluorohexanesulfonic acid (PFHxS)	9.22	2.0	ng/L	9.10		101	70-130	1.19	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	9.09	2.0	ng/L	9.95		91.3	70-130	6.29	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	8.88	2.0	ng/L	9.95		89.2	70-130	5.85	30	
5:2 Fluorotelomersulfonic acid (6:2FTS A)	8.16	2.0	ng/L	9.45		86.3	70-130	2.56	30	
Perfluoropentanesulfonic acid (PFPeS)	9.24	2.0	ng/L	9.35		98.8	70-130	6.45	30	
Perfluoroundecanoic acid (PFUnA)	10.4	2.0	ng/L	9.95		105	70-130	3.22	30	
Nonafluoro-3,6-dioxaheptanoic acid NFDHA)	8.74	2.0	ng/L	9.95		87.9	70-130	5.02	30	
Perfluoroheptanoic acid (PFHpA)	9.64	2.0	ng/L	9.95		96.9	70-130	4.97	30	
Perfluorooctanoic acid (PFOA)	10.7	2.0	ng/L	9.95		108	70-130	4.05	30	
Perfluorooctanesulfonic acid (PFOS)	9.13	2.0	ng/L	9.20		99.2	70-130	6.95	30	
Perfluorononanoic acid (PFNA)	8.51	2.0	ng/L	9.95		85.6	70-130	0.371	30	
Surrogate: M2-4:2FTS	41.4		ng/L	37.3		111	50-200			
Surrogate: M2-8:2FTS	63.1		ng/L	38.2		165	50-200			
Surrogate: MPFBA	37.8		ng/L	39.8		95.0	50-200			
Surrogate: M3HFPO-DA	39.0		ng/L	39.8		98.0	50-200			
Surrogate: M6PFDA	38.6		ng/L	39.8		97.1	50-200			
Surrogate: M3PFBS	40.6		ng/L	37.1		109	50-200			
Surrogate: M7PFUnA	35.9		ng/L	39.8		90.3	50-200			
Surrogate: M2-6:2FTS	52.5		ng/L	37.8		139	50-200			
Surrogate: M5PFPeA	38.3		ng/L	39.8		96.2	50-200			
Surrogate: M5PFHxA	34.7		ng/L	39.8		87.2	50-200			
Surrogate: M3PFHxS	38.7		ng/L	37.7		103	50-200			
Surrogate: M4PFHpA	36.8		ng/L	39.8		92.6	50-200			
Surrogate: M8PFOA	37.9		ng/L	39.8		95.1	50-200			
Surrogate: M8PFOS	39.8		ng/L	38.2		104	50-200			
Surrogate: M9PFNA	42.1		ng/L	39.8		106	50-200			
Surrogate: MPFDoA	35.7		ng/L	39.8		89.7	50-200			



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

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



CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
СТ	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023

State Of Origit Cert. Needed: Owner Receiv		Date/Time comments Date/Time Date/Time Date/Time Comments Sbir2< 2005 25 Compound List Sbir2< 0NS Sbir2 Sbir2< 0NS Sbir2 Sbir2 Sbir2 Sbir2	
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39 Spruce St. East Longmeadow, MA. 01028 P: 413-525-2332 F:413-525-6405 www.pacelabs.com	Login San – Using A	ELON-0001 V05Sample Receivi Og in Back-Sheet hple Receipt Checklist – (Rejection Criteria List cceptance Policy) Any False statement will be	ing Pa	ace ⁻
Client Pace - Long Island	brought t	o the attention of the Client – True or False	l PEOPLE	ADVANCING SCIENCE
Project PFAS 533 - JA			True	False
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Deliverable Package Requirement_ $\mathcal{N}(\mathcal{A})$		Received in Cooler		
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PWSID# (When Applicable) $\mathcal{N}(\mathcal{A})$		COC Relinguished		
Arrival Method:		COC/Samples Labels Agree		
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Back-Sheet By / Date / Time <u>AAM(S-CC</u>		Samples Received within Holdir	ng Time	
Temperature Method Temp. Gun #	-	Is there enough Volume		
Temp < 6° C Actual Temperature 4.1°	and the second se	Proper Media/Container Used		
Rush Samples: Yes / (No)Notify		Splitting Samples Required		
Short Hold: Yes / No Notify		MS/MSD		
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