

**ANNUAL WATER QUALITY REPORT FOR CALENDAR YEAR 2020**  
**POUGHKEEPSIE TOWNWIDE WATER DISTRICT**  
**1 Overocker Road**  
**Poughkeepsie, New York**  
**Federal Public Water Supply ID #NY1302812**

**Introduction:**

To comply with State regulations, the Poughkeepsie Townwide Water District annually issues this report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. This report provides an overview of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to State standards. Sampling and analyses are carried out routinely as directed by the Dutchess County Health Department and the New York State Department of Health and currently meet the drinking water standards.

If you have any questions about this report or concerning your drinking water, please contact Keith Ballard, Department Manager, at the Town of Poughkeepsie Water Department, at (845) 462-6535, or the Dutchess County Health Department at (845) 486-3404. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled meetings. Town of Poughkeepsie Board and Committee of the Whole meetings are scheduled on Wednesdays at 7:00 pm in the Town Hall at One Overocker Road in Poughkeepsie; please phone the Water Department to confirm meetings at (845) 462-6535. You may also visit the Poughkeepsies' Water Treatment Facility website at <http://www.pokwater.com>. Learn more about the water treatment plant by attending any of the regularly scheduled Joint Water Board meetings held the first Tuesday of every month in the conference room at the Joint Water Plant (behind Marist College); for further information about the Poughkeepsies' Water Treatment Facility, telephone the Joint Water Board Administrator's office at (845) 451-4173, ext. 2003.

**Where Does Our Water Come From?**

In general, 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 activities. Contaminants that may be present in source water include: microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and the Environmental Protection Agency (EPA) prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The source of water for the Town of Poughkeepsie is treated surface water (Hudson River) which is purchased from the jointly owned town and city treatment plant, Poughkeepsies' Water Treatment Facility. The Poughkeepsies' Water Treatment Facility utilizes conventional, state of the art, filtration process to treat the water supply. This process includes chemical application of polyaluminum chloride to stabilize the small particles in the raw water supply. Once stabilized, the particles are combined with an organic polymer and previously settled solids, then slowly mixed to form larger particles. The larger particles are then removed through settling. Occasionally carbon dioxide is added prior to this process to aid coagulation for enhanced removal of organic compounds. Following the settling process, ozone is added to assist in the breakdown of organic compounds. The water is then passed through filters made of biologically activated carbon and sand. These filters help polish the water and reduce the organic compounds that can cause disinfection byproducts when water is chlorinated. Disinfection, the process used to kill disease-producing organisms, is accomplished through application of ultraviolet light followed by a carefully monitored chlorination process. Post treatment includes the addition of phosphoric acid and sodium hydroxide. Phosphoric acid is added at 2.3 mg/L to reduce corrosion of customer's lead piping and fixtures. Sodium hydroxide is added when necessary to increase the treated water to a pH of 7.7 in effort to minimize corrosion of pipes within the distribution system and customers plumbing.

**Facts and Figures**

The Poughkeepsie Townwide Water District serves a population of approximately 45,000 through 10,535 service connections. In 2020 a total volume of 2,626,094,570 gallons of potable water was withdrawn from sources for the Town Water System. Of this total, 663,524,228 gallons was delivered to 3<sup>rd</sup> party customers and 2,401,032,128 gallons was delivered to Poughkeepsie Townwide Water District customers. The Town billed its customers for 1,531,064,744 gallons of water. Non-billed water was 206,443,156 gallons which were for losses due to the flushing program for water quality purposes, water main breaks, firefighting, and the ongoing fire hydrant maintenance program. This represents a 9% loss of water within the Town's Water System. The Town of Poughkeepsie employs an ongoing leak detection program to locate any system leaks and make repairs in a timely manner.

**Water Cost**

In 2020, the Town of Poughkeepsie billed its users based on quarterly water meter readings at the rate of \$2.50 per 100 cubic feet of water (or 748 gallons), with \$18.78 being the minimum rate for 0-750 cubic feet of water consumed.

**Facility Modification**

No facility modifications were made in 2020.

**Are there contaminants in our drinking water?**

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: Total Coliform Bacteria, Turbidity, Orthophosphate, Lead and Copper, Residual Chlorine, Total Trihalomethanes and Haloacetic Acids. The table presented below depicts which compounds were detected in your drinking water. The State allows us to test for some contaminants

less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

The test data presented in this report cover solely the Poughkeepsie Townwide Water District distribution system. An addendum to this report contains data from the Poughkeepsies' Water Treatment Facility. Additional information about the water supplied by the Poughkeepsies' Water Treatment Facility may be found in the Annual Water Quality Report published by the Joint Town/City Water Board.

It should be noted that all drinking water, including bottled drinking water, may be reasonably 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 EPA's Safe Drinking Water Hotline at 800-426-4791, or the Dutchess County Health Department at 845-486-3404, or by viewing the EPA drinking water website, [www.epa.gov/safewater](http://www.epa.gov/safewater), and the New York State Health Department website, [www.health.ny.gov](http://www.health.ny.gov).

### Salt Front Information

Our water is taken from the Hudson River Estuary, which is subject to increased chloride and sodium levels during low rainfall periods. During September 2020, the facility experienced a salt front episode (defined by USGS as chloride levels exceeding 100 mg/L). During this time the sodium concentration of the water produced was elevated. An advisory was issued to the public to notify consumers on severely restricted sodium diets that the sodium content increased to greater than 50 mg/L. The advisory was lifted in November 2020. The plant effluent was tested for sodium 14 times in 2020 with values ranging from 22.8 mg/L to 57.6 mg/L and an average of 31.5 mg/L.

During normal water years the sodium level varies from 15 – 25 mg/L with higher levels occurring during periods of low rainfall.

**Customers that are on a salt restricted diet should consult with their physician concerning sodium in their drinking water.**

Information concerning sodium levels in your water can be obtained at any time by contacting the Water Plant Administrator, Randy Alstadt at 451-4173 x 2003.

### EPA's Unregulated Contaminant Monitoring Rule 4 (UCMR4)

The purpose of the Unregulated Contaminant Monitoring Rule is to assist the EPA in determining the occurrence of suspected contaminants in drinking water and whether regulation is required. Every five years a new list suspected contaminants is developed. The contaminants are not regulated by the EPA or state and therefore do not currently have set drinking water standards. UCMR4 testing was completed in 2019. Contaminants detected are listed in the table. For more information on the testing and results please contact the department manager listed at the beginning of this report.

Table of Detected Contaminants, Poughkeepsie Townwide Water District, 2020							
Water Distribution System							
Contaminant	Violation Yes/No	Sample Date(s)	Level Detected	Unit of Measurement	MCLG	Regulatory Limit	Likely Source of Contamination
<b>Lead and Copper Monitoring</b>							
Copper	No	8/25/20 thru 9/24/20	0.05 <sup>1</sup> Range = ND to 0.861	mg/L	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits.
Lead	No	8/25/20 thru 9/24/20	4.7 <sup>2</sup> Range = ND to 6.1	ug/L	0	AL = 15	Corrosion of household plumbing systems, erosion of natural deposits
<b>Inorganic Contaminants</b>							
Orthophosphate (reported as Phosphorus)	N/A	3 per week	Average = 0.64 Range = 0.56 to 0.70	mg/L	N/A	N/A	Orthophosphate is added at the Poughkeepsies' Water Treatment Facility to inhibit corrosion of lead piping in the distribution system.
Turbidity	No	5 per week	Average = 0.2 Range = 0.041 to 2.61	NTU	N/A	MCL = 5.0 <sup>3</sup>	Soil runoff
<b>Disinfection Byproducts</b>							
Free Chlorine Residual	No	minimum of 50 per month	Average = 1.31 Range = 0.1 to 2.19	mg/L	N/A	MCL = 4 <sup>4</sup>	Water additive used to control microbes.
Total Trihalomethanes (TTHMs -- chloroform, bromo-dichloromethane, dibromochloromethane, and bromoform)	No	02/12/20 05/13/20 08/12/20 11/10/20	Stage 2 Calculation <sup>5</sup> Highest LRAA = 60.3 (Range of detects = 19.3 – 117)	ug/L	N/A	MCL = 80 for four-quarter average	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
Haloacetic Acids (mono-, di-, and trichloroacetic acid,	No	02/12/20 05/13/20 08/12/20 11/10/20	Stage 2 Calculation <sup>5</sup> Highest LRAA = 23.9 (Range of detects = 10.3 to 27.2)	ug/L	N/A	MCL = 60 for four-quarter average	By-product of drinking water disinfection needed to kill harmful organisms.

and mono- and di-bromoacetic acid)							
<b>Asbestos</b>							
Asbestos	No	12/30/19	1.2	mf/L	N/A	7	Decay of asbestos cement water mains; Erosion of natural deposits.
<b>Unregulated Contaminant Monitoring Rule (UCMR3 and UCMR4)</b>							
Manganese	No	2/13/19 5/22/19 9/25/19	Average = 1.404 Range = 0.673 to 2.6	ug/L	N/A	300	Naturally occurring; Indicative of landfill contamination
Bromochloroacetic acid	No	2/13/19 5/22/19 9/25/19	Average = 3.57 Range = 2.19 to 5.6	ug/L	N/A	N/A	By-product of drinking water disinfection needed to kill harmful organisms.
Bromodichloroacetic acid	No	2/13/19 5/22/19 9/25/19	Average = 4.0 Range = 2.67 to 5.06	ug/L	N/A	N/A	By-product of drinking water disinfection needed to kill harmful organisms.
Chlorodibromoacetic acid	No	2/13/19 5/22/19 9/25/19	Average = 1.54 Range = 1.02 to 2.4	ug/L	N/A	N/A	By-product of drinking water disinfection needed to kill harmful organisms.

**Footnotes:**

1. The level presented represents the 90th percentile of the 30 sites tested for copper. In this case, 30 samples were collected throughout the distribution system and the 90th percentile was the 27th highest value (0.05 mg/L). The action level for copper was not exceeded at any of the sites tested.
2. The level presented represents the 90th percentile of the 30 sites tested for lead. In this case, 30 samples were collected throughout the distribution system and the 90th percentile was the 27th highest value (4.7 µg/L). The action level for lead was not exceeded at any of the sites tested.
3. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of the filtration system of the Poughkeepsie’s Water Treatment Facility. In accordance with State regulations for distribution systems, we test for turbidity 5 days/week, 52 weeks/year. Results are reported for the year. Since the Town purchases its water from the Poughkeepsie’s Water Treatment Facility, Treatment Technique regulations do not apply to the Town’s distribution system. State regulations for distribution systems require that the monthly average for turbidity must be below 5 NTU.
4. The value reported represents the Maximum Residual Disinfectant Level (MRDL) which is a level of disinfectant added for water treatment that may not be exceeded at the consumer’s tap without an unacceptable possibility of adverse health effects.
5. The regulation requires a Locational Running Annual Average (LRAA) be calculated at each site by averaging the results of the 4 most recent quarters. The LRAA reported in this table is the highest LRAA obtained in 2020.

**Definitions:**

**Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**CFU/100 mL:** Colony Forming Units per 100 milliliters of sample.

**LRAA:** Locational Running Annual Average; used to calculate Trihalomethane and Haloacetic Acid levels for reporting for the Stage 2 Disinfection Byproduct rule (“DBR Stage 2”)

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as possible.

**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.

**Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG):** 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 contamination.

**Milligrams per liter (mg/L):** corresponds to one part of liquid in one million parts of liquid (parts per million -- ppm).

**Micrograms per liter (ug/L):** corresponds to one part of liquid in one billion parts of liquid (parts per billion -- ppb).

**Million Fibers per Liter (mf/L):** million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers

**N/A:** Not Applicable.

**ND (Non-Detects):** Laboratory analysis indicates that the contaminant is not present.

**Nephelometric Turbidity Unit (NTU):** A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**90th Percentile Value:** The values reported for lead and copper 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% of the lead and copper values detected at your water system.

**Picocuries per liter (pCi/L):** Picocuries per liter is a measure of the radioactivity in water.

**Running Annual Average (RAA):** This value is determined by first calculating the quarterly average of all 4 locations sampled and then averaging the 4 most recent quarterly averages.

**Locational Running Annual Average (LRAA):** This value is determined by averaging the 4 most recent quarterly results from one location.

**What does this information mean?**

As you can see by the table, our system had no violations in 2020. We learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the state.

**Information on Lead**

We must provide information on lead in drinking water even though our last round of testing showed no problems. Please take a moment to read the following information on lead:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women, infants, and young children. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home’s plumbing. The Poughkeepsie Townwide Water District 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 your 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 (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

**Information on Fluoride**

Up until February 2008, our system was one of the many drinking water systems in New York State that provided drinking water with a controlled, low level of fluoride for consumer dental health protection. The fluoride was added by the Poughkeepsies’ Water Treatment Facility before it was delivered to us. According to the United States Centers for Disease Control, fluoride is very effective in preventing cavities when present in drinking water at an optimal range from 0.8 to 1.2 mg/L (parts per million). To ensure that the fluoride supplement in your water provided optimal dental protection, the State Department of Health required that the Joint Town and City of Poughkeepsie Water Treatment Facility monitor fluoride levels on a daily basis. During the period when fluoride was being added to the water, no monitoring test results showed levels of fluoride which approached the 2.2 mg/L MCL.

In February 2008, the Poughkeepsies’ Water Treatment Facility stopped adding fluoride to the water. You may want to discuss this with your family dentist to see if some other form of fluoride supplement should be considered for your dental protection.

**Is our water system meeting other rules that govern operations?**

During 2020, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

**Do I need to take special precautions?**

Although our drinking water met or exceeded 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. 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.

**Why Save Water? How Do I Avoid Wasting It?**

Although our system has an adequate amount of water to meet present and future demands, there are a number of 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 whenever you can. It is not hard to conserve water. Conservation tips include:

- Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- Water your garden and lawn only when necessary. Remember that a layer of mulch in the flower beds and garden is not only aesthetically pleasing but will help retain moisture.
- Turn off the tap when brushing your teeth.
- 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 you save more than 30,000 gallons a year.
- Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances. Then check the meter after 15 minutes. If it moved, you have a leak.

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, which are the heart of our community and our way of life. Please call us at the number listed at the beginning of this report if you have any questions.

**Addendum**

Poughkeepsies’ Water Treatment Facility Table of Detected Contaminants 2020							
Contaminant	Violation Yes/No	Sample Date(s)	Level Detected	Unit of Measurement	MCLG	Regulatory Limit	Likely Source of Contamination

<b>Plant Effluent - Inorganic Contaminants</b>							
Orthophosphate (reported as Phosphorus)	N/A	2 per day	Average = 0.612 Range = 0.206 to 1.23	mg/L	N/A	N/A	Orthophosphate is added at the Poughkeepsies' Water Treatment Facility to inhibit corrosion of lead piping in the distribution system.
Total Organic Carbon	N/A	1 per week	Average = 1.32 Range = 1.038 to 1.825	mg/L	N/A	N/A	Naturally present in the environment
Turbidity (Plant Effluent)	No	Continuous Monitoring	Average = 0.044 Range = 0.024 to 0.22	NTU	N/A	MCL = 1 NTU monthly average <sup>1</sup> MCL = 5 NTU two day average	Soil runoff
Turbidity (Filter Effluent)	No	Continuous Monitoring	Average = 0.036 Range = 0.011 to 0.227	NTU	N/A	TT = 95% of samples < 0.3 NTU <sup>2</sup>	Soil runoff
Aluminum	No	1 per week	Average = 34.5 Range = ND to 85	ug/L	200	N/A	Erosion of natural deposits; discharge of drilling wastes; discharge from metal refineries
Barium	No	9/30/20	0.0206	mg/L	2	MCL = 2	Erosion of natural deposits; discharge of drilling wastes; discharge from metal refineries
Bromate	No	Monthly	Average = 5.8 Range = ND to 22.3 <sup>3</sup>	µg/L	N/A	MCL = 10 Annual average	By-product of drinking water disinfection at treatment plants using Ozone.
Chlorate	No	9/24/20, 10/1/20, 11/5/20, 12/3/20	Average = 200.5 Range = 117 to 324	µg/L	N/A	N/A	By-product of drinking water disinfection at treatment plants using sodium hypochlorite.
Chloride	No	9/30/20	97.7	mg/L	250	N/A	Naturally occurring or indicative of road salt contamination
Nitrate	No	9/30/20	0.60	mg/L	10	MCL = 10	Runoff from fertilizer, Leaking septic tanks, sewage, erosion of natural deposits
Nickel	No	9/30/20	0.530	µg/L	N/A	N/A	Naturally occurring, leaching from pipes
Sodium	No	Monthly	Average = 31.46 Range = 22.8 to 57.6	mg/L	N/A	N/A <sup>4</sup>	Naturally occurring; Road salt; Water softeners; Animal waste
Sulfate	No	9/30/20	26.2	mg/L	N/A	MCL = 250	Naturally occurring
<b>Plant Effluent - Disinfectants</b>							
Free Chlorine Residual	No	Continuous Monitoring	Average = 2.42 Range = 1.62 to 3.38	mg/L	N/A	MCL = 4 <sup>5</sup>	Water additive used to control microbes.
<b>Plant Effluent - Disinfection Byproducts</b>							
Total Trihalomethanes (chloroform, bromo-dichloromethane, dibromochloro-methane, and bromoform)	No	02/12/20 05/13/20 08/12/20 11/10/20	Stage 2 Calculation <sup>6</sup> Highest LRAA = 7.1 (Range of detects = 2.36 – 11.8)	µg/L	N/A	MCL = 80 for four-quarter average	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
Haloacetic Acids (mono-, di-, and trichloroacetic acid, and mono- and di-bromoacetic acid)	No	02/12/20 05/13/20 08/12/20 11/10/20	Stage 2 Calculation <sup>6</sup> Highest LRAA = 6.0 (Range of detects = 2.79 – 5.56)	µg/L	N/A	MCL = 60 for four-quarter average	By-product of drinking water disinfection needed to kill harmful organisms.
<b>Plant Effluent – Synthetic Organic Contaminants</b>							
Perfluorooctanoic acid (PFOA)	No	10/19/20	2.00	ng/L	N/A	MCL = 10	Released into the environment from widespread use in commercial and industrial applications.
Perfluorooctane sulfonate (PFOS)	No	10/19/20	1.39	ng/L	N/A	MCL = 10	Released into the environment from widespread use in commercial and industrial applications.
<b>Plant Effluent - Radioactive Contaminants</b>							
Gross Alpha Plant Effluent	No	9/30/20	0.502	pCi/L	0	MCL = 15	Erosion of natural deposits.
Gross Beta	No	9/30/20	1.32	pCi/L	0	MCL = 50 <sup>7</sup>	Decay of natural deposits and man-made emissions.
Radium-226	No	9/30/20	0.0415	pCi/L	0	MCL = 5	Erosion of natural deposits.
Radium-228	No	9/30/20	0.860	pCi/L	0	MCL = 5	Erosion of natural deposits.
Uranium	No	9/30/20	0.050	ug/L	0	MCL = 30	Erosion of natural deposits.
<b>Raw Water - Radioactive Contaminants</b>							
Gross Alpha	No	4/11/18 7/6/18 10/4/18	Average = 3.71 Range = ND to 6.33	pCi/L	0	MCL = 15	Erosion of natural deposits.
Gross Beta	No	4/11/18 7/6/18 10/4/18	Average = 4.815 Range = ND to 8.89	pCi/L	0	MCL = 50 <sup>7</sup>	Decay of natural deposits and man-made emissions.
Uranium	No	4/11/18 7/6/18 10/4/18	Average = 0.221 Range = 0.191 to 0.246	µg/L	0	MCL = 30	Erosion of natural deposits.

1. Turbidity is a measure of the cloudiness of the water. We test it because it is a good indicator of the effectiveness of our filtration system. Our highest single turbidity measurement on the plant effluent (0.22 NTU) occurred on 8/26/20. An MCL violation occurs when the average of all daily entry point analyses for the month exceed the MCL of 1 NTU or when the daily two-day average exceeds 5 NTU.
2. The turbidity of each filter is monitored to determine treatment compliance. State regulations require that turbidity must always be below 1 NTU. State regulations require that 95% of samples are below 0.3 NTU. In 2020, 100% of samples were less than 0.3

- NTU. The highest filter turbidity reading (0.227 NTU) occurred on 12/18/20.
3. Bromate was detected above the MCL on 9/24/20 at a concentration of 22.3 ug/L. Although the MCL value was exceeded for the monthly testing, an MCL violation did not occur as the yearly average is used to determine compliance. Some people who drink water containing bromate in excess of the MCL over many years may have an increased risk of getting cancer.
  4. Water containing more than 20 mg/L of sodium should not be used for drinking by people 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.
  5. Value presented represents the Maximum Residual Disinfectant Level (MRDL) which is a level of disinfectant added for water treatment that may not be exceeded at the consumer's tap without an unacceptable possibility of adverse health effects.
  6. The regulation requires a Locational Running Annual Average (LRAA) be calculated by averaging the results of the 4 most recent quarters. The LRAA reported in this table is the highest LRAA obtained in 2020.
  7. The State considers 50 pCi/L to be the level of concern for beta particles.

#### Table Definitions

**NYSDOH:** New York State Department of Health

**USEPA:** United States Environmental Protection Agency

**MCL (Maximum Contaminant Level):** The highest level of a contaminant that is allowed in the drinking water.

**MCLG (Maximum Contaminant Level Goal):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

**MRDL (Maximum Residual Disinfectant Level):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**MRDLG (Maximum Residual Disinfectant Level Goal):** 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 contamination.

**NTU (Nephelometric Turbidity Unit):** A measure of the clarity of the water. Turbidity in excess of 5.0 NTU is just noticeable to the average person.

**TT:** Treatment Technique

**N/A:** Not Applicable

**ND:** Not Detected

**ng/L (nanograms per liter):** Corresponds to one mass part in one trillion parts of another liquid (parts per trillion)

**mg/L (milligrams per liter):** Corresponds to one mass part in one million parts of another liquid (parts per million)

**µg/L (micrograms per liter):** Corresponds to one mass part in one billion parts of another liquid (parts per billion)

**pCi/L (Picocuries per liter):** A measure of the radioactivity in water.

**mrem/yr (millirems per year):** A measure of radiation absorbed by the body.