

Annual Drinking Water Quality Report for 2021
Revere Park Water System
Lake Walton Rd Hopewell Junction, NY 12533
(Public Water Supply ID# 1302798)

INTRODUCTION

To comply with State regulations, Revere Park Water, will be annually issuing a 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. Last year, your tap water had a monitoring violation for Manganese result being over the Maximum Contaminant Level in all four (4) quarters. The Town of East Fishkill also has plans to change the water source from the current source, to the Hopewell Hamlet water district and is working on regulatory approvals. 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.

If you have any questions about this report or concerning your drinking water, please contact VRI Environmental Services at (845) 677-3839. We want you to be informed about your drinking water.

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. To ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the quantity of certain contaminants in water provided by public water systems. The State Health Department and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water system serves a population of 280 people through 77 service connections. There are multiple water sources for this water system. One water source is from one drilled well that draws from an underground aquifer along the Fishkill/Sprout Creek drainage basin. In December of 2016 an orthophosphate addition system was installed to protect users from possible high lead and copper levels. The well water is disinfected with sodium hypochlorite and pumped to fill a storage tank. The water is then pumped from the storage tank to a pneumatic tank, which provides system pressure. This water source was used for the majority of the 2021 year. In November of 2021, a newly installed interconnection to the Brettview Estates water system (second source) was put online. This interconnection is located on Derek Drive and sends water from Brettview Estates to Revere Park. In 2021, we pumped 5,347,900 gallons at an average of 14,651 gallons per day.

The New York State Department of Health completed a source water assessment of the water supply in 2003. The source water assessment has rated our water source as having a potential susceptibility to microbial and nitrate contamination. These ratings are due primarily to the reported proximity of the wells to permitted discharge facilities (facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and the residential land use and related activities in the assessment area. The full results of this report are available from the Town of East Fishkill or the Dutchess County Department of Behavioral and Community Health.

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, inorganic compounds, nitrate, lead and copper, volatile organic compounds, total trihalomethanes, haloacetic acids, synthetic organic compounds, and radiologicals. 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.

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 (800-426-4791) or the Dutchess County Department of Behavioral and Community Health at (845) 486-3404.

Table of Detected Contaminants

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, AL or TT)	Likely Source of Contamination
Manganese	Yes	Quarterly 2021	0.482 (Range = 0.429 – 0.543)	mg/L	n/a	0.3	Naturally occurring; Indicative of landfill contamination
Nitrate	No	Quarterly 2021	2.3 (Range = 2.16 – 2.46)	mg/L	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Copper *	No	September 2021	0.190 (Range = 0.0343 – 0.214)	mg/L	1.3	AL = 1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Lead **	No	September 2021	0.002 (Range = ND – 0.003)	mg/L	0	AL = 0.015	Corrosion of household plumbing systems, erosion of natural deposits.
Barium	No	9/17/2021	0.0259	mg/L	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits

Table of Detected Contaminants

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, AL or TT)	Likely Source of Contamination
Total Trihalomethanes	No	9/23/2021 12/9/2021	13.6 40.0	ug/L	n/a	80	By-product of drinking water disinfection needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
Haloacetic Acids	No	9/23/2021 12/9/2021	4.08 18.64	ug/L	n/a	60	By-product of drinking water disinfection needed to kill harmful organisms.
Nickel	No	9/17/2021	0.00173	mg/L	n/a	n/a	Corrosion of plumbing systems; Erosion of natural deposits
Chloride	No	Quarterly 2021	200.25 (Range = 195 – 212)	mg/L	n/a	250	Naturally occurring or indicative of road salt contamination
Sodium	No	Quarterly 2021	109 (Range = 104 – 115)	mg/L	n/a	See Health Effects ***	Naturally occurring; Road salt; Water Softeners; Animal Waste;
Uranium	No	11/17/2016	0.682	ug/L	0	30	Erosion of natural deposits.
Calcium Entry Point	No	6/21/2018 6/27/2018 12/6/2018 12/13/2018	220 211 212 203	mg/L	n/a	n/a	
Alkalinity Entry Point	No	6/21/2018 6/27/2018 12/6/2018 12/13/2018	188 192 194 193	mg/L	n/a	n/a	

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Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, AL or TT)	Likely Source of Contamination
Orthophosphate Entry Point	No	6/21/2018	0.858	mg/L	n/a	n/a	Additive for treatment process
		6/27/2018	0.855				
		12/6/2018	0.960				
		12/13/2018	0.934				
Conductivity Entry Point	No	6/21/2018	980	umhos/cm	n/a	n/a	
		6/27/2018	967				
		12/6/2018	841				
		12/13/2018	926				
Total Dissolved Solids Entry Point	No	6/21/2018	640	mg/L	n/a	n/a	
		6/27/2018	666				
		12/6/2018	616				
		12/13/2018	608				
Calcium 5 Angie	No	6/27/2018	214	mg/L	n/a	n/a	
		12/19/2018	219				
Alkalinity 5 Angie	No	6/27/2018	189	mg/L	n/a	n/a	
		12/19/2018	192				
Orthophosphate 5 Angie	No	6/27/2018	1.10	mg/L	n/a	n/a	Additive for treatment process
		12/19/2018	0.930				
Conductivity 5 Angie	No	6/27/2018	981	umhos/cm	n/a	n/a	
		12/19/2018	914				
Total Dissolved Solids 5 Angie	No	6/27/2018	500	mg/L	n/a	n/a	
		12/19/2018	578				
Calcium 51 Julie	No	6/27/2018	211	mg/L	n/a	n/a	
Alkalinity 51 Julie	No	6/27/2018	189	mg/L	n/a	n/a	
Orthophosphate 51 Julie	No	6/27/2018	1.54	mg/L	n/a	n/a	

Table of Detected Contaminants

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, AL or TT)	Likely Source of Contamination
Conductivity 51 Julie	No	6/27/2018	951	umhos/cm	n/a	n/a	
Total Dissolved Solids 51 Julie	No	6/27/2018	680	mg/L	n/a	n/a	
Calcium 53 Julie	No	12/17/2018	197	mg/L	n/a	n/a	
Alkalinity 53 Julie	No	12/17/2018	193	mg/L	n/a	n/a	
Orthophosphate 53 Julie	No	12/17/2018	0.955	mg/L	n/a	n/a	
Conductivity 53 Julie	No	12/17/2018	915	umhos/cm	n/a	n/a	
Total Dissolved Solids 53 Julie	No	12/17/2018	582	mg/L	n/a	n/a	
Copper ****	No	December 2021	0.236 (Range = 0.0206 – 0.419)	mg/L	1.3	AL = 1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Perfluorooctanoic Acid (PFOA) Well 1	No	Quarterly 2021	5.10 (Range = 4.61 – 5.37)	ng/L	n/a	10	Released into the environment from widespread use in commercial and industrial applications.
Perfluorooctane Sulfonic Acid (PFOS) Well 1	No	Quarterly 2021	4.3 (Range = 3.80 – 5.09)	ng/L	n/a	10	Released into the environment from widespread use in commercial and industrial applications.

Table of Unregulated Detected Contaminants

Contaminant	Date of Sample	Level Detected (Max) (Range)	Unit Measurement	Likely Source of Contamination
Perfluorobutanesulfonic Acid (PFBS)	9/24/2021 12/2/2021	3.20 2.84	ng/L	Released into the environment from widespread use in commercial and industrial applications.
Perfluorohexanoic Acid (PFHxA)	9/24/2021 12/2/2021	2.99 1.59	ng/L	Released into the environment from widespread use in commercial and industrial applications.
Perfluoroheptanoic Acid (PFHpA)	9/24/2021 12/2/2021	1.37 0.922	ng/L	Released into the environment from widespread use in commercial and industrial applications.
Perfluorohexanesulfonic Acid (PFHxS)	9/24/2021 12/2/2021	1.19 0.849	ng/L	Released into the environment from widespread use in commercial and industrial applications.

The following tests were sampled in 2021 and were non-detected:

Lead (2nd half of 2021)

Iron

Arsenic

Beryllium

Cadmium

Chromium

Antimony

Thallium

Selenium

Mercury

Fluoride

Cyanide

1,4 Dioxane

Footnotes:

* The level presented represents the 90th percentile of the 5 sites tested. 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 copper values detected at your water system. In this case, 5 samples were collected at your water system and the 90th percentile value is the reported value. The action level for copper was not exceeded at any of the sites tested.

** The level presented represents the 90th percentile of the 5 sites tested. 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 values detected at your water system. In this case, 5 samples were collected at your water system and the 90th percentile value is the reported value. The action level for lead was not exceeded at any of the sites tested.

*** 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.

**** The level presented represents the 90th percentile of the 10 sites tested. 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 copper values detected at your water system. In this case, 10 samples were collected at your water system and the 90th percentile value is the reported value. The action level for copper was not exceeded at any of the sites tested.

***** The level presented represents the 90th percentile of the 10 sites tested. 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 values detected at your water system. In this case, 10 samples were collected at your water system and the 90th percentile value is the reported value. The action level for lead was not exceeded at any of the sites tested.

Definitions:

Non - Detects (ND) - Laboratory analysis indicates that the constituent is not present.

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).

Action Level (AL) - The concentrations 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. MCL's are set as close to the MCLG's 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. MCLG's 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

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

Nanograms per liter (ng/L) – Corresponds to one part of liquid to one trillion parts of liquid (parts per trillion – ppt).

WHAT DOES THIS INFORMATION MEAN?

As you can see from the table the maximum allowable contaminant levels (MCL) for Manganese were exceeded in 2021. The manganese MCL has been exceeded all year. The Town has completed the construction of an interconnection and alternative water source via the Fishkill Plains and/or Hopewell Hamlet water treatment plants. The Manganese MCL has been mitigated by the use of the alternative water source and new interconnection. The new water source was approved for use by the Department of Health in the Fall of 2021.

Manganese: The Food and Nutrition Research Council determined and estimated safe and adequate daily dietary intake of manganese to be 2,000-5,000 micrograms for adults. However, many people's diets lead them to consume even higher amounts of manganese, especially those who consume high amounts of vegetable or are vegetarian. The infant population is of greatest concern. It would be better if the drinking water were not used to make formula since it already contains iron and manganese.

Excess manganese produces brownish color in laundered goods and impairs the taste of tea, coffee, and other beverages. Concentrations may cause a dark brown or black stain on porcelain plumbing fixtures. As with Iron, manganese may form a coating on distribution pipes. These may slough off, causing brownish blotches on laundered clothing or black particles in the water.

The Town of East Fishkill is in the process of increasing the capacity of the Hopewell Hamlet Water District to be able to serve the Revere Park Water District.

Additionally, we are required to present the following information on lead in drinking water:

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. Revere Park 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 the water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (800) 426-4791 or at <http://www.epa.gov/safewater/lead>.

In December of 2016, the Town of East Fishkill installed a corrosion control system.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether your drinking water meets health standards. During 2021, your water exceeded the maximum contaminant level for Manganese in all four (4) quarters. The Revere Park Water District is in violation of Subpart 5-1.30 (b) of the New York State Sanitary Code and of the Surface Water Treatment Rule which required the installation of a water filtration plant or the development of a new water source within 18 months of making a determination of groundwater under the influence of surface water; by March 12, 2014. Therefore, we are required to include the following statement in this report: "Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches." While Revere Park chlorinates the water system, there is no filtration system in place.

In accordance with the NYS Department of Health Regulations, the existing wells supplying the Revere Park Water District have been designated as "Ground Water Under the Direct Influence of surface water (GWUDI)." Our water system is in violation of the New York State Sanitary Code requirement that treatment be installed to remove possible pathogens associated with surface water sources. All drinking water customers are being advised of this designation as it may require changes to the treatment system.

The following steps are being taken to correct this issue: The Town is pursuing connecting Revere Park to an alternate water source. The NYSDOH has recently approved the connection of Cannon Well Field to Hopewell Hamlet. An application is being pursued to connect Revere Park to Hopewell Hamlet.

What does GWUDI mean? "Under the direct influence of surface water" means the groundwater source is receiving direct surface water recharge. Since a portion of the groundwater source's recharge is from surface water, the groundwater source is considered at risk of microbiological contamination.

Why am I being notified? The presence of microbiological contaminants is a health concern at certain levels of exposure. If water is inadequately treated, microbiological contaminants in that water may cause disease. Disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice, and any associated headaches and fatigue. These symptoms, however, are not just associated with disease-causing organisms in drinking water but may be caused by a number of factors other than your drinking water. The New York State Department of Health has set enforceable requirements of treating drinking water to reduce the risk of these adverse health effects.

Is the water safe to drink? Yes. Routine testing for Revere Park Water District indicates the water supply continues to meet New York State drinking water standards. Routine testing will continue, and customers will be notified if routine testing indicates that exposure may create health risks.

Advisory for the Immunocompromised – The Dutchess County Health Department believes the risk of waterborne disease is low based on routine testing results. However, immunocompromised individuals may want to consider, in consultation with their health care provider, extra precautions to minimize their risk of infection. Precautions may include boiling drinking water for at least two minutes or purchasing bottled water certified for sale by the New York State Department of Health. The Town is pursuing connecting Revere Park to an alternate water source. The NYSDOH has recently approved the connection of Cannon Well Field to Hopewell Hamlet. An application is being pursued to connect Revere Park to Hopewell Hamlet.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

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. 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 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 (800-426-4791).

WHY SAVE WATER AND HOW TO 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 fire fighting 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.
- ◆ Turn off the tap when brushing your teeth.
- ◆ Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it up and you can save almost 6,000 gallons per year.
- ◆ 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.

CLOSING

Thank you for allowing us to continue to provide your family with drinking water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements. We ask that all our customers help us protect our water sources, which are the heart of our community. Please call our office if you have any questions.

Annual Water Quality Report for 2021
Brettview Estates Water System
Fishkill Plains Water System
14 Brown Road, East Fishkill, NY 12533
(Public Water Supply ID# 1302762)

INTRODUCTION

To comply with State regulations, Brettview Estates Water, will be annually issuing a 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. Last year, your tap water met all State drinking water health standards. We are proud to report that our system did not violate a maximum contaminant level or any other water quality standard. 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.

If you have any questions about this report or concerning your drinking water, please contact VRI Environmental Services at 845-677-3839. We want you to be informed about your drinking water.

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 EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The State Health Department and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water system serves approximately 333 homes with a population of 1150. The Brettview Water District Facilities received and distributed 35,587,500 gallons of water for distribution throughout the year with an average daily production of approximately 97,500 gallons. All of our water is supplied through a connection to the Fishkill Plains Water District at Dogwood Knolls subdivision. The water from Fishkill Plains flows through a meter pit and into the Brettview water district. There are 2 separate sources of water that come from the Fishkill Plains water system. The primary source is 2 groundwater wells located off of Wright Boulevard on a private lot owned by the Town. The alternate source is an interconnection to the Dutchess County Water/Wastewater Authority Central Dutchess Water Transmission Line (CDWTL) located on Lake Walton Road by the Dutchess County Rail Trail. Both sources of water were used during the 2021 year.

The NYS DOH 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 state source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the wells. 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 "Table of Detected Contaminants" for a list of the contaminants that have been detected. The source water assessments provide resource managers with additional information for protecting source waters into the future.

The source water assessment has rated our water source as having an elevated susceptibility to microbial and nitrate contamination. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and the residential land use and related activities in the assessment area. In addition, the wells are located in an area which is prone to flooding.

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, lead and copper, 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.

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 (800) 426-4791 or Dutchess County Department of Behavioral and Community Health at (845) 486- 3404.

Table of Detected Contaminants

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Chlorine Residual (Entry Point)	No	Yearly Average 2021	1.33 (Range = 0.83 – 1.73)	mg/L	N/A	4.0	Water additive used to control microbes.
Turbidity * (Entry Point)	No	Yearly Average 2021	0.24 (Range = 0.21 – 0.29)	NTU	n/a	5	Soil runoff.
Turbidity * (Distribution)	No	Yearly Average 2021	0.24 (Range = 0.19 – 0.29)	NTU	n/a	5	Soil runoff.
Copper **	No	December 2021	127 (Range = 12.2 – 253)	ug/L	1300	AL = 1300	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.
Lead ***	No	December 2021	4.13 (Range = ND – 20.6)	ug/L	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits.
Total Trihalomethanes ****	No	3/24/2021 3/26/2021 6/24/2021 6/28/2021 7/20/2021 11/18/2021	53.68 (Range = 17.2 – 95)	ug/L	N/A	80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Haloacetic Acids ****	No	3/24/2021 3/26/2021 6/24/2021 6/28/2021 7/20/2021 11/18/2021	23.35 (Range = 11.12 – 36.60)	ug/L	N/A	60	By-product of drinking water disinfection needed to kill harmful organisms.

Footnotes:

* Turbidity is a measure of the cloudiness of the water. We test it because it is a good indicator of the effectiveness of the filtration system. Our highest turbidity measurement for the year occurred in January, February, and March 2021 (0.31).

** The level presented represents the 90th percentile of the 20 sites tested. 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 copper values detected at your water system. In this case, 20 samples were collected at your water system and the 90th percentile value is the reported value. The action level for copper was not exceeded at any of the sites tested.

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**** MCL based on quarterly average.

Definitions:

Non - Detects (ND) - Laboratory analysis indicates that the constituent is not present.

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).

Action Level (AL) - The concentrations 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. MCL's are set as close to the MCLG's 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. MCLG's 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.

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

WHAT DOES THIS INFORMATION MEAN?

As you can see by the table, our system had no violations. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State. We are required to present the following information on lead in drinking water.

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. Brettview Estates 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 the 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 (800) 426-4791 or at <http://www.epa.gov/safewater/lead>.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2021, 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 (800) 426-4791.

WHY SAVE WATER AND HOW TO 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.
- ◆ Turn off the tap when brushing your teeth.
- ◆ Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it up and you can save almost 6,000 gallons per year.
- ◆ 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.

CLOSING

Thank you for allowing us to continue to provide your family with quality drinking water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements. We ask that all our customers help us protect our water sources, which are the heart of our community. Please call our office if you have any questions.

Annual Water Quality Report for 2021
Fishkill Plains Water System
76 Wright Blvd, Hopewell Junction, NY 12533
(Public Water Supply ID# 1302805)

INTRODUCTION

To comply with State regulations, Fishkill Plains Water will be annually issuing a 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. Last year, your tap water met all State drinking water health standards. We are proud to report that our system did not violate a maximum contaminant level or any other water quality standard. 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.

If you have any questions about this report or concerning your drinking water, please contact VRI Environmental Services at 845-677-3839. We want you to be informed about your drinking water.

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. To ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the number of certain contaminants in water provided by public water systems. The State Health Department and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The Public water system serves a total population of 2050 through a total of 591 service connections; 900 of those people are located within the Fishkill Plains Water District and 1150 within the Brettview Water District within the Brettview Acres Water Co. The 258 service connections located within the Fishkill Plains Water District consist of residential homes and commercial properties. The 333 service connections located within the Brettview Acres Water Co. consist of residential homes. The Commercial properties include the Van Wyck Junior High School, the Fishkill Plains School, Brettview, Brookmeade Plaza, Summerlin Plaza and the 1203 Business Park, LLC. Our primary water source is from 2 groundwater wells, which are approximately 50' deep. These wells are located off of Wright Boulevard on a private lot owned by the Town. The water is chlorinated with a sodium hypochlorite solution and pumped into a storage tank. The water is then pumped from the storage tank to a pneumatic tank, which provides system pressure. Our alternate water source is an interconnection to the Dutchess County Water/Wastewater Authority Central Dutchess Water Transmission Line (CDWTL) located on Lake Walton Road by the Dutchess County Rail Trail. Both sources of water were used during the 2021 year. The Fishkill Plains facility is also equipped with an emergency generator in case of power failures. New green sand filtration was installed in 2011 to remove iron and manganese. Last year we pumped a total of 58,306,300 gallons at an average daily usage of 159,743 gallons per day.

The NYS DOH 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 state source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the wells. 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 "Table of Detected Contaminants" for a list of the contaminants that have been detected. The source water assessments provide resource managers with additional information for protecting source waters into the future.

The source water assessment has rated our water source as having an elevated susceptibility to microbial and nitrate contamination. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and the residential land use and related activities in the assessment area. In addition, the wells are located in an area which is prone to flooding.

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, nitrate, principal organic compounds, primary inorganic compounds, lead and copper, disinfection byproducts, synthetic organic compounds and radiologicals. 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.

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 (800) 426-4791 or the Dutchess County Department of Behavioral and Community Health at (845) 486-3404.

Table of Detected Contaminants

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, AL or TT)	Likely Source of Contamination
Chlorine Residual (Entry Point)	No	Yearly Average 2021	1.88 (Range = 1.06 – 2.62)	mg/L	N/A	4.0	Chemical additive for the disinfection of microbes.
Turbidity * (Entry Point)	No	Yearly Average 2021	0.18 (Range = 0.06 – 0.25)	NTU	n/a	5	Soil runoff.
Turbidity * (Distribution)	No	Yearly Average 2021	0.20 (Range = 0.07 – 0.27)	NTU	n/a	5	Soil runoff.
Sodium	No	Quarterly 2021	65.5 (Range = 56 – 70)	mg/L	N/A	See Health Effects **	Naturally occurring; Road salt; Water softeners; Animal waste.
Chloride	No	Quarterly 2021	120 (Range = 120 – 120)	mg/L	N/A	250	Naturally occurring or indicative of road salt contamination.
Barium	No	9/17/2021	0.041	mg/L	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Nickel	No	9/17/2021	0.0018	mg/L	N/A	N/A	

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, AL or TT)	Likely Source of Contamination
Copper ***	No	December 2021	190 (Range = 13 – 210)	ug/L	1300	AL = 1300	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.
Lead ****	No	December 2021	4 (Range = ND – 6.1)	ug/L	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits.
Nitrate	No	3/17/2021	0.58	mg/L	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Haloacetic Acids	No	Quarterly 2021	15.15 (Range = 8.1 – 25.4)	ug/L	N/A	60	By-product of drinking water disinfection needed to kill harmful organisms.
Total Trihalomethanes	No	Quarterly 2021	33.25 (Range = 13 – 55)	ug/L	N/A	80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
Gross Alpha	No	4/26/2019	1.05	pCi/L	0	15	Erosion of natural deposits.
Gross Beta	No	4/26/2019	0.373	pCi/L	0	50 ****	Decay of natural deposits and man-made emissions.
Combined Radium 226 & 228	No	4/26/2019	1.18	pCi/L	0	5	Erosion of natural deposits.
Uranium	No	4/26/2019	1.09	ug/L	0	30	Erosion of natural deposits.
Perfluorooctanoic Acid (PFOA) Well 1	No	Quarterly 2021	1.28 (Range = 2.30 – 3.35)	ng/L	n/a	10	Released into the environment from widespread use in commercial and industrial applications.

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, AL or TT)	Likely Source of Contamination
Perfluorooctane Sulfonic Acid (PFOS) Well 1	No	Quarterly 2021	1.48 (Range = 1.56 – 1.97)	ng/L	n/a	10	Released into the environment from widespread use in commercial and industrial applications.
Perfluorooctanoic Acid (PFOA) Well 2	No	Quarterly 2021	2.85 (Range = 2.55 – 3.31)	ng/L	n/a	10	Released into the environment from widespread use in commercial and industrial applications.
Perfluorooctane Sulfonic Acid (PFOS) Well 2	No	Quarterly 2021	2.24 (Range = 1.93 – 2.91)	ng/L	n/a	10	Released into the environment from widespread use in commercial and industrial applications.

Table of Unregulated Detected Contaminants					
Contaminant	Date of Sample	Level Detected (Max) (Range)	Unit Measurement	Likely Source of Contamination	
Perfluorobutanesulfonic Acid (PFBS)	Well 1	9/24/2021	1.63	ng/L	Released into the environment from widespread use in commercial and industrial applications.
		12/2/2021	2.22		
	Well 2	9/24/2021	3.35		
		12/2/2021	4.50		
Pefluorohexanoic Acid (PFHxA)	Well 1	9/24/2021	2.56	ng/L	Released into the environment from widespread use in commercial and industrial applications.
		12/2/2021	2.00		
	Well 2	9/24/2021	1.57		
		12/2/2021	1.83		
Perfluoroheptanoic Acid (PFHpA)	Well 1	9/24/2021	0.853	ng/L	Released into the environment from widespread use in commercial and industrial applications.
		12/2/2021	0.875		
	Well 2	9/24/2021	0.875		
		12/2/2021	0.842		

Contaminant	Date of Sample	Level Detected (Max) (Range)	Unit Measurement	Likely Source of Contamination
Perfluorohexanesulfonic Acid (PFHxS)			ng/L	Released into the environment from widespread use in commercial and industrial applications.
Well 1	9/24/2021 12/2/2021	3.23 2.74		
Well 2	12/2/2021	2.20		

Footnotes:

* Turbidity is a measure of the cloudiness of the water. We test it because it is a good indicator of the effectiveness of the filtration system. Our highest single turbidity measurement for the year occurred on March 2021 (0.29).

** 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.

*** The level presented represents the 90th percentile of the 20 sites tested. 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 copper values detected at your water system. In this case, 20 samples were collected at your water system and the 90th percentile value is the reported value. The action level for copper was not exceeded at any of the sites tested.

**** The level presented represents the 90th percentile of the 20 sites tested. 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 values detected at your water system. In this case, 20 samples were collected at your water system and the 90th percentile value is the reported value. The action level for lead not exceeded at any of the sites tested.

***** The State considers 50 pCi/L to be the level of concern for beta particles.

Definitions:

N/A- Means not applicable

Non - Detects (ND) - Laboratory analysis indicates that the constituent is not present.

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).

Action Level (AL) - The concentrations 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. MCL's are set as close to the MCLG's 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. MCLG's 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

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

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

Nanograms per liter (ng/L) – Corresponds to one part of liquid to one trillion parts of liquid (parts per trillion – ppt).

WHAT DOES THIS INFORMATION MEAN?

As you can see by the table, our system had no violations. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State. We are required to present the following information on lead in drinking water.

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 because of materials used in your home's plumbing. Fishkill Plains 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 the 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 (800) 426-4791 or at <http://www.epa.gov/safewater/lead>.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2021, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

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. 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 State Drinking Water Hotline (800-426-4791).

WHY SAVE WATER AND HOW TO 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.
- ◆ Turn off the tap when brushing your teeth.
- ◆ Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it up and you can save almost 6,000 gallons per year.
- ◆ 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.

CLOSING

Thank you for allowing us to continue to provide your family with quality drinking water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements. We ask that all our customers help us protect our water sources, which are the heart of our community. Please call our office if you have any questions.

Annual Drinking Water Quality Report for 2021
Central Dutchess Water Transmission Line
21 Page Park Dr.
Poughkeepsie, NY 12603
(Public Water Supply ID#1330640)

INTRODUCTION

To comply with State regulations, the [Central Dutchess Water Transmission Line \(CDWTL\)](#), will be annually issuing a 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. [Last year, we conducted tests for all required regulated contaminants. Of those contaminants, one \(lead\) was detected at a level above the respective MCL. The site where the exceedance occurred was notified and they replaced the sinks and plumbing at those locations. Further monitoring by DCWWA-CDW will be done.](#) 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.

If you have any questions about this report or concerning your drinking water, please contact the Dutchess County Water and Wastewater Authority at (845) 486- 3601. We want you to be informed about your drinking water. If you want to learn more, please visit the Dutchess County Water and Wastewater Authority website at WWW.DCWWA.org.

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. To ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the number 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.

Our water system serves approximately 4500 people through six service connections and three consecutive systems (GlobalFoundries, Hopewell Glen and the Dutchess County Airport). Our water source originates at the Poughkeepsie Water Treatment Facility (PWS # 1302774). A copy of their AWQR is attached for reference. The sole source of water for the Poughkeepsie Water Treatment Facility (PWTF) is the Hudson River (surface water) The plant is located along the Hudson River within the Marist College Campus on Route 9. The raw river water is drawn from the Hudson River adjacent to the PWTF, approximately 1000 feet from the shore at a depth of 48 feet below the mean river elevation. The PWTF utilizes a conventional filtration process. After filtration is completed, the water is aerated to improve taste. It is then disinfected using ultraviolet light and a carefully monitored chlorination process. Orthophosphate and Sodium Hydroxide are added to the water to reduce corrosion of customer piping and fixtures. After the water has been treated, it is delivered to

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg) (Range)	Unit Measurement	MCLG	Regulatory Limit (AL)	Likely source of Contamination
Disinfection Byproducts							
Halo acetic acids HAA5 (4)							
Griffith Way Entry Point	No	Quarterly	31.5 (13.1–58.0)	ug/l	0	60	Byproduct of disinfection
Globalfoundries Entry point	No	Quarterly	19.2 (8.9-35.0)	ug/l	0	60	Byproduct of disinfection
Total Trihalomethanes (TTHM) (4)							
Griffith Way Entry Point	No	Quarterly	45.8 (18.0-69.0)	ug/l	0	80	Byproduct of disinfection
Globalfoundries Entry Point	No	Quarterly	35.3 (13.0-58.0)	ug/l	0	80	Byproduct of disinfection
Contaminant	Violation Yes/No	Date of Sample	(90th) (Range)	Unit Measurement	MCLG	Regulatory Limit (AL)	Likely source of Contamination
Lead (3)	Yes	Jan 2021	51.8 (1 - 536)	ug/l	0	15	Erosion of natural deposits and corrosion of plumbing systems
Lead (3)	Yes	July 2021	66 (1 – 72)	ug/l	0	15	Erosion of natural deposits and corrosion of plumbing systems
Copper (2)	No	Jan 2021	.771 (0.0149-1.01)	mg/l	0	1.3	Erosion of natural deposits and corrosion of plumbing systems.
Copper (2)	No	July 2021	.21 (.01-.77)	mg/l	0	1.3	Erosion of natural deposits and corrosion of plumbing systems.

1 – Turbidity is a measure of the cloudiness of the water. We test it because it is a good indicator of the effectiveness of the filtration system. State regulations require that turbidity must always be below 5 NTU.

2 – The level presented represents the 90th percentile of the 10 samples taken. 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 copper values detected at your water system. In this case 10 samples were collected at your water system in Jan and the 90th percentile value was .77 mg/l. The 10 samples that were collected in July the 90th percentile was. 21 mg/l. The action level for copper was not exceeded in any of the twenty samples taken.

3 – The level presented represents the 90th percentile of the 10 samples collected. In this case 10 samples were collected at your water system in Jan and the 90th percentile value was 51.8 ug/l. The 10 samples that were

collected in July the 90th percentile was 66 ug/l. The action level for lead was exceeded in 5 of the twenty samples taken.

4 – This level represents the annual quarterly average calculated from data collected.

Definitions:

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.

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.

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

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Non-Detects (ND): Laboratory analysis indicates that the constituent 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.

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).

WHAT DOES THIS INFORMATION MEAN?

Lead levels exceeded the action level in 5 of the 20 samples taken from the water system. [We are required to present the following information on lead in Drinking water.](#)

If present, elevated levels of lead can cause serious health problems, especially for pregnant women, infants, and young children. *Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. Infants and young children are typically more vulnerable to lead in drinking water than the general population.* It is possible that lead levels where you work may be higher than at other workplaces in the community as a result of materials used in your workplace plumbing. [Dutchess County Water and Wastewater Authority](#) 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>.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2021 the CDWTL was in compliance with all applicable State drinking water operating, monitoring, and reporting requirements.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Although our drinking water met or exceeded most 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 (800-426-4791)

WHY SAVE WATER AND HOW TO 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 fire fighting needs are met.

You can play a role in conserving water by becoming conscious of the amount of water you are using, and by looking for ways to use less whenever you can. It is not hard to conserve water. Conservation tips include:

- ◆ Check every faucet in your office for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.
- ◆ 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.

Thank you for allowing us to continue to provide you 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. Please call our office if you have questions.

ANNUAL WATER QUALITY REPORT FOR CALENDAR YEAR 2021
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 Tom Colgan, 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 2021 a total volume of 2,379,180,056 gallons of potable water was withdrawn from sources for the Town Water System. Of this total, 655,247,296 gallons was delivered to 3rd party customers and 1,723,932,760 gallons was delivered to Poughkeepsie Townwide Water District customers. The Town billed its customers for 2,144,658,120 gallons of water. Non-billed water was 232,211,596 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 10% 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 2021, 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 2021.

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, and the New York State Health Department website, 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 2021, the facility did not experience a salt front episode (defined by USGS as chloride levels exceeding 100 mg/L). The plant effluent was tested for sodium 13 times in 2021 with values ranging from 14.7 mg/L to 41.3 mg/L and an average of 25.79 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, 2021 Water Distribution System							
Contaminant	Violation Yes/No	Sample Date(s)	Level Detected	Unit of Measurement	MCLG	Regulatory Limit	Likely Source of Contamination
Lead and Copper Monitoring							
Copper	No	8/25/20 thru 9/24/20	0.05 ¹ 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 ² Range = ND to 6.1	ug/L	0	AL = 15	Corrosion of household plumbing systems, erosion of natural deposits
Inorganic Contaminants							
Orthophosphate (reported as Phosphorus)	N/A	3 per week	Average = 0.65 Range = 0.58 to 1.18	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 = 0.1 Range = 0.04 to 0.88	NTU	N/A	MCL = 5.0 ³	Soil runoff
Disinfection Byproducts							
Free Chlorine Residual	No	minimum of 50 per month	Average = 1.46 Range = 0.21 to 2.60	mg/L	N/A	MCL = 4 ⁴	Water additive used to control microbes.
Total Trihalomethanes (TTHMs -- chloroform, bromodichloromethane, dibromochloromethane, and bromoform)	No	02/10/21 05/12/21 08/11/21 11/10/21	Stage 2 Calculation ⁵ Highest LRAA = 62.5 (Range of detects = 12.2 – 89.9)	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, and mono- and di-bromoacetic acid)	No	02/10/21 05/12/21 08/11/21 11/10/21	Stage 2 Calculation ⁵ Highest LRAA = 27.7 (Range of detects = 8.88 to 47.5)	ug/L	N/A	MCL = 60 for four-quarter average	By-product of drinking water disinfection needed to kill harmful organisms.

Asbestos							
Asbestos	No	12/30/19	1.2	mf/L	N/A	7	Decay of asbestos cement water mains; Erosion of natural deposits.
Unregulated Contaminant Monitoring Rule (UCMR3 and UCMR4)							
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 Poughkeepsies' 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 Poughkeepsies' 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 2021.

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 2021. 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 2021, 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 2021**

Contaminant	Violation Yes/No	Sample Date(s)	Level Detected	Unit of Measurement	MCLG	Regulatory Limit	Likely Source of Contamination
Plant Effluent - Inorganic Contaminants							
Orthophosphate (reported as Phosphorus)	N/A	2 per day	Average = 0.605 Range = 0.257 to 1.14	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 = 1.55 Range = 1.09 to 2.09	mg/L	N/A	N/A	Naturally present in the environment
Turbidity (Plant Effluent)	No	Continuous Monitoring	Average = 0.046 Range = 0.033 to 0.12	NTU	N/A	MCL = 1 NTU monthly average ¹ MCL = 5 NTU two day average	Soil runoff
Turbidity (Filter Effluent)	No	Continuous Monitoring	Average = 0.0416 Range = 0.016 to 0.215	NTU	N/A	TT = 95% of samples < 0.3 NTU ²	Soil runoff
Aluminum	No	1 per week	Average = 25.3 Range = ND to 72	ug/L	200	N/A	Erosion of natural deposits; discharge of drilling wastes; discharge from metal refineries
Barium	No	9/23/21	0.0174	mg/L	2	MCL = 2	Erosion of natural deposits; discharge of drilling wastes; discharge from metal refineries
Bromate	No	Monthly	Average = 5.5 Range = ND to 22.3 ³	µg/L	N/A	MCL = 10 Annual average	By-product of drinking water disinfection at treatment plants using Ozone.
Calcium	No	8/19/21	62	mg/L			
Chlorate	No	Monthly	Average = 182.9 Range = 98 to 271	µg/L	N/A	N/A	By-product of drinking water disinfection at treatment plants using sodium hypochlorite.
Chloride	No	9/23/21	41.4	mg/L	250	N/A	Naturally occurring or indicative of road salt contamination
Iron	No	8/19/21	72.8	ug/L	N/A	300 ⁴	Naturally occurring
Magnesium	No	8/19/21	17	mg/L	N/A	N/A	
Manganese	No	8/19/21	44.9	ug/L	N/A	N/A	Naturally occurring; indicative of landfill contamination
Nitrate	No	9/23/21	0.47	mg/L	10	MCL = 10	Runoff from fertilizer, Leaking septic tanks, sewage, erosion of natural deposits
Sodium	No	Monthly	Average = 25.79 Range = 14.7 to 41.3	mg/L	N/A	N/A ⁵	Naturally occurring; Road salt; Water softeners; Animal waste
Sulfate	No	9/23/21	7.0	mg/L	N/A	MCL = 250	Naturally occurring
Plant Effluent - Disinfectants							
Free Chlorine Residual	No	Continuous Monitoring	Average = 2.64 Range = 1.74 to 3.55	mg/L	N/A	MCL = 4 ⁶	Water additive used to control microbes.
Plant Effluent - Disinfection Byproducts							
Total Trihalomethanes (chloroform, bromo-dichloromethane, dibromochloro-methane, and bromoform)	No	02/12/21 05/12/21 08/11/21 11/10/21	Stage 2 Calculation ⁷ Highest LRAA = 6.82 (Range of detects = 0.78 – 10.7)	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	02/12/21 05/12/21 08/11/21 11/10/21	Stage 2 Calculation ⁷ Highest LRAA = 6.21 (Range of detects = 2.97 – 6.4)	µg/L	N/A	MCL = 60 for four-quarter average	By-product of drinking water disinfection needed to kill harmful organisms.
Plant Effluent – Synthetic Organic Contaminants							
Perfluorooctanoic acid (PFOA)	No	2/8/2021 5/19/2021 9/7/2021 11/23/2021	Average = 1.48 Range = ND to 2.8	ng/L	N/A	MCL = 10	Released into the environment from widespread use in commercial and industrial applications.

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 (0.12 NTU) occurred on 8/12/21. 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 2021, 100% of samples were less than 0.3 NTU. The highest filter turbidity reading (0.215 NTU) occurred on 9/3/21.
3. Bromate was not detected in any sample collected in 2021. The MCL value is determined by monitoring a rolling annual average each month. The annual average reported in this table contains detects from 2021.
4. If iron and manganese are present, the total concentration of both should not exceed 500 ug/L
5. 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.
6. 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.

7. 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 2021.

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.

Annual Drinking Water Quality Report for 2021

Poughkeepsies' Water Treatment Facility

3431 North Road, Poughkeepsie NY 12601

Public Water Supply NY1302774

The Poughkeepsies' Water Treatment Facility, which is owned and operated by the City and Town of Poughkeepsie, provides drinking water to 80,000 individuals within the City of Poughkeepsie, Town of Poughkeepsie, the Dutchess County Water Authority, and the Town of Hyde Park. To comply with State regulations, The Poughkeepsies' Water Treatment Facility 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. Last year, your tap water met all State drinking water health standards. We are proud to report that our system did not violate a maximum contaminant level or any other water quality standard. 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.

If you have any questions about this report or concerning your drinking water, please contact Randy Alstadt, Water Plant Administrator, Poughkeepsies' Water Treatment Facility at 451-4173 x2003 or the Dutchess County Department of Behavioral & Community Health, 85 Civic Center Plaza, Suite 106, Poughkeepsie 12601 at 486-3404. If you want to learn more, please attend any of our regularly scheduled Joint Water Board meetings. The meetings are held the first Tuesday of every month at the Water Treatment Facility. Minutes and information reviewed at those meetings are available on our web site www.pokwater.com. For additional information you may also visit EPA's drinking water web site (www.epa.gov/safewater/) and the New York State Department of Health's web site (www.health.state.ny.us).

The tables in this report contain various water quality parameters and the concentration of contaminants detected along with the possible source. A copy of this report and the complete list and results of organic and inorganic contaminants tested throughout the 2021 year can be obtained by contacting Water Plant Administrator, Randy Alstadt at 451-4173 x2003. We are pleased to present to you the 2021 Annual Water Quality Report.

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 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 EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems and require monitoring for the contaminants. 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.

Our water source is the Hudson River, which originates from the north in the Adirondacks at Lake Tear of the Clouds, located on the southwest shoulder of Mount Marcy; New York State's highest peak. The Hudson River Watershed is very expansive, covering nearly 12,500 square miles, of which the majority is within New York State, however, small portions are located in Vermont, Massachusetts, Connecticut and New Jersey. Raw water is taken from the Hudson River adjacent to our treatment plant, approximately 1,000 feet from shore at a depth of 48 feet below the mean river elevation. Water quality tests have shown the river to be of very high quality. During 2021, our system did not experience any restriction of our water source.

Water Treatment

The Poughkeepsies' Water Treatment Facility utilizes a 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 Poughkeepsies' Water Treatment Facility, which is located along the Hudson River within the Marist College Campus on Route 9, was constructed in 1962 and upgraded in 2004 and 2016. The Facility is currently rated at a maximum production capacity of 19.3 million gallons per day (MGD).

In 2021, the treatment facility produced 3,827,711,000 gallons of potable water, approximately 10.487 MGD. Total billed water to the City was 1,201,66,430 gallons (3.3 MGD) while gallons billed to the Town of Poughkeepsie was 2,626,094,570 (7.2 MGD). The cost of production in 2021 was \$1.25 per 1,000 gallons. This equates to 10 gallons of water for one penny!

Are There Contaminants in our Drinking Water?

To insure maximum water quality for our customers, the Poughkeepsies' Water Treatment Facility staff monitors source, treated and distribution water daily. In addition to continuous plant effluent monitoring for turbidity, chlorine residuals, and pH, approximately 30,000 water quality tests were conducted by the water plant staff in 2021. Operators at our facility analyzed chlorine residual, effluent turbidity and pH 12 times daily or combined or 13,140 analyses. In addition, orthophosphate was analyzed 730 times or twice daily. Additional analyses performed on raw water, plant effluent, and/or distribution system samples included inorganic compounds (metals), volatile organic compounds, total trihalomethanes, haloacetic acids, and synthetic organic compounds. The table presented in this report depicts which compounds were detected in your drinking water.

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 (800-426-4791) or the Dutchess County Department of Behavioral & Community Health at 486-3404.

Salt Front

Our water is taken from the Hudson River Estuary, which is subject to increased chloride and sodium levels during low rainfall periods. During 2021, the facility did not experience a salt front episode (defined by USGS as chloride levels exceeding 100 mg/L). The plant effluent was tested for sodium 13 times in 2021 with values ranging from 14.7 mg/L to 41.3 mg/L and an average of 25.79 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.

Hardness

The water obtained from the Hudson River is considered moderately hard. The average hardness of the plant effluent in 2021 was 71.38 mg/L or 4.15 grains/gallon.

What are PFAS chemicals and are they in my drinking water?

Over the past few years' contamination of drinking water supplies with PFAS chemicals has frequently been in the news. PFAS chemicals are man-made per- and polyfluoroalkyl substances. These include PFOA, PFOS, GenX, and many other chemicals. Environmental watchdog groups often refer to these chemicals as "Forever Chemicals" because they are persistent in the environment, do not break down, and can accumulate over time. PFAS can be found in food packaging, non-stick products, stain and water repellent fabrics, other commercial household products, and firefighting foams. PFOA caused a range of health effects when studied in animals at high exposure levels. The most consistent findings were effects on the liver and immune system and impaired fetal growth and development. Studies of high-level exposures to PFOA in people provide evidence that some of the health effects seen in animals may also occur in humans. The United States Environmental Protection Agency considers PFOA as having suggestive evidence for causing cancer based on studies of lifetime exposure to high levels of PFOA in animals

On August 26, 2020, NYS adopted new requirements for water utilities to begin testing for PFAS chemicals in drinking water.

NYS has set the PFOA and PFOS Maximum Contaminant Level (MCL) to 10 ng/L (nanograms per liter also known as parts per trillion). The plant effluent will be monitored quarterly for PFAS compounds.

Poughkeepsies' Water Treatment Facility Table of Detected Contaminants 2021							
Contaminant	Violation Yes/No	Sample Date(s)	Level Detected	Unit of Measure -ment	MCLG	Regulatory Limit	Likely Source of Contamination
Plant Effluent - Inorganic Contaminants							
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 = 1.55 Range = 1.38 to 2.09	mg/L	N/A	N/A	Naturally present in the environment
Turbidity (Plant Effluent)	No	Continuous Monitoring	Average = 0.046 Range = 0.033 to 0.12	NTU	N/A	MCL = 1 NTU monthly average ¹ MCL = 5 NTU two day average	Soil runoff
Turbidity (Filter Effluent)	No	Continuous Monitoring	Average = 0.0416 Range = 0.016 to 0.215	NTU	N/A	TT = 95% of samples < 0.3 NTU ²	Soil runoff
Aluminum	No	1 per week	Average = 25.3 Range = ND to 72	ug/L	200	N/A	Erosion of natural deposits; discharge of drilling wastes; discharge from metal refineries
Barium	No	9/23/21	0.0174	mg/L	2	MCL = 2	Erosion of natural deposits; discharge of drilling wastes; discharge from metal refineries
Bromate	No	Monthly	Average = 5.5 Range = ND to 22.3 ³	µg/L	N/A	MCL = 10 Annual average	By-product of drinking water disinfection at treatment plants using Ozone.
Calcium	No	8/19/21	62	mg/L			
Chlorate	No	Monthly	Average = 182.9 Range = 98 to 271	µg/L	N/A	N/A	By-product of drinking water disinfection at treatment plants using sodium hypochlorite.
Chloride	No	9/23/21	41.4	mg/L	250	N/A	Naturally occurring or indicative of road salt contamination
Iron	No	8/19/21	72.8	ug/L			
Magnesium	No	9/23/21	17	mg/L			
Manganese	No	8/19/21	44.9	ug/L			
Nitrate	No	9/23/21	0.47	mg/L	10	MCL = 10	Runoff from fertilizer, Leaking septic tanks, sewage, erosion of natural deposits
Sodium	No	Monthly	Average = 25.79 Range = 14.7 to 41.3	mg/L	N/A	N/A ⁴	Naturally occurring; Road salt; Water softeners; Animal waste
Sulfate	No	9/23/21	7.0	mg/L	N/A	MCL = 250	Naturally occurring
Plant Effluent - Disinfectants							
Free Chlorine Residual	No	Continuous Monitoring	Average = 2.64 Range = 1.74 to 3.55	mg/L	N/A	MCL = 4 ⁵	Water additive used to control microbes.
Plant Effluent - Disinfection Byproducts							
Total Trihalomethanes (chloroform, bromo-dichloromethane, dibromochloro-methane, and bromoform)	No	02/12/21 05/12/21 08/11/21 11/10/21	Stage 2 Calculation ⁶ Highest LRAA = 6.82 (Range of detects = 0.78 – 10.7)	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	02/12/21 05/12/21 08/11/21 11/10/21	Stage 2 Calculation ⁶ Highest LRAA = 6.21 (Range of detects = 2.97 – 6.4)	µg/L	N/A	MCL = 60 for four-quarter average	By-product of drinking water disinfection needed to kill harmful organisms.
Plant Effluent – Synthetic Organic Contaminants							
Perfluorooctanoic acid (PFOA)	No	2/8/2021 5/19/2021 9/7/2021 11/23/2021	Average = 1.48 Range = ND to 2.8	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.
Plant Effluent - Radioactive Contaminants							
Gross Alpha Plant Effluent	No	9/23/21	0.224	pCi/L	0	MCL = 15	Erosion of natural deposits.
Gross Beta	No	9/23/21	1.56	pCi/L	0	MCL = 50 ⁷	Decay of natural deposits and man-made emissions.
Radium-226	No	9/23/21	0.0667	pCi/L	0	MCL = 5	Erosion of natural deposits.

Radium-228	No	9/23/21	0.690	pCi/L	0	MCL = 5	Erosion of natural deposits.
Uranium	No	9/23/21	0.147	ug/L	0	MCL = 30	Erosion of natural deposits.
Raw Water - Radioactive Contaminants							
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 ⁷	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 (0.12 NTU) occurred on 8/12/21. 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 2021, 100% of samples were less than 0.3 NTU. The highest filter turbidity reading (0.215 NTU) occurred on 9/3/21.
3. Bromate was not detected in any sample collected in 2021. The MCL value is determined by monitoring a rolling annual average each month. The annual average reported in this table contains detects from 2020. 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 2021.
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.

Lead in Your Drinking Water

The facility adds phosphoric acid at 2.3 mg/L to the treated water in order to protect lead plumbing in customer's homes. This program has resulted in significantly reducing lead levels in most homes.

Lead present at elevated levels 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 Poughkeepsies' Water Treatment Facility is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. Potential exposure to lead in drinking water can be minimized by running the water from the tap for 30 seconds to 2 minutes before using it for drinking or cooking, especially if it has been unused for several hours. 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 www.epa.gov/safewater/lead.

What Does This Information Mean?

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

Is Our Water System Meeting Other Rules That Govern Operations?

During 2021, 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 (800-426-4791).

Why Save Water and How to Avoid Wasting It?

Although our water source 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 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.
- ◆ Turn off the tap when brushing your teeth.
- ◆ Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it up and you can save almost 6,000 gallons per year.
- ◆ 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.