INTRODUCTION

To comply with State regulations, the D.C.W.W.A.- Arbors Water System, 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 over 5 contaminants, and only found 1 of those contaminants at a higher level than the State allows. We have increased the sampling frequency for lead, and the number of samples that will be taken to help pinpoint the source of the issue so that the appropriate actions can be taken. Affected residents were notified immediately after the sample results were received. 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 Authority at 845-229-2524 and ask for Alain Petit, Jr.. We want you to be informed about your drinking water. If you want to learn more about the Dutchess County Water and Wastewater Authority, please visit our website at WWW.DCWWA.Org. You can also reach us at 845-486-3601.

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’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. The water is purchased from the Poughkeepsie Water Treatment Plant, which is located along the Hudson River within the Marist College Campus on Rt. 9. After the water has been treated, it is delivered to the Poughkeepsie Town Wide Water District, ( PWS # NY 1302812 ), and then to the Arbors Water District via a meter pit located on Legion Road. A copy of the Poughkeepsie Water Treatment Facility Annual Water Quality Report is included with this mailing. During 2020, our system did not experience any restriction of our water source.

There were no spills in the Hudson River that placed the Hudson River as our source in jeopardy of meeting our demands. The local health department is in contact with plant operators whenever there is a spill event of any size or type in the Hudson River so we are not caught by any surprise events that could jeopardize water treatment.
FACTS AND FIGURES

Our water system serves approximately 300 persons thru 7 service connections. For more information about water usage and billing rates, please contact our office at 845-486-3601.

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, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes, haloacetic acids, radiological and synthetic organic compounds. 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 (1-800-426-4791) or the Dutchess County Department of Behavioral and Community Health at 845-486-3404.

A Summary of the Regulated Contaminants Detected In Our Treated Water

<table>
<thead>
<tr>
<th>Microbiological Contaminants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contaminant</td>
</tr>
<tr>
<td>Distribution Turbidity (1)</td>
</tr>
</tbody>
</table>
### Inorganic Contaminants

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Violation Yes/No</th>
<th>Date of Sample</th>
<th>Level Detected (Avg/Max) (Range)</th>
<th>Unit Measurement</th>
<th>MCLG MRDLG</th>
<th>Regulatory Limit MCL, TT, AL MRDL</th>
<th>Likely Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper (2)</td>
<td>No</td>
<td>9/16/20</td>
<td>0.21 (Range &lt;0.01 – 0.241)</td>
<td>mg/l</td>
<td>N/A</td>
<td>AL = 1.3</td>
<td>Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives</td>
</tr>
<tr>
<td>Lead (3)</td>
<td>Yes</td>
<td>9/16/20</td>
<td>35.0 (Range 1.38 – 61.9)</td>
<td>ug/l</td>
<td>N/A</td>
<td>AL = 15</td>
<td>Corrosion of household plumbing systems; Erosion of natural deposits</td>
</tr>
<tr>
<td>Lead (3) Site 1</td>
<td>Site 2 Site 3</td>
<td>Site 4 Site 5</td>
<td>1.38 2.25 2.38 7.85 61.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September 2020</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Disinfection Byproducts

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Violation Yes/No</th>
<th>Date of Sample</th>
<th>Level Detected (Avg/Max) (Range)</th>
<th>Unit Measurement</th>
<th>MCLG MRDLG</th>
<th>Regulatory Limit MCL, TT, AL MRDL</th>
<th>Likely Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haloacetic Acids (HAA5) (4)</td>
<td>No</td>
<td>Qrtrly</td>
<td>(Avg.) 22 (Range 8.7 – 17.8)</td>
<td>ug/l</td>
<td>N/A</td>
<td>60</td>
<td>By-product of drinking water disinfection needed to kill harmful organisms</td>
</tr>
<tr>
<td>Total Trihalomethanes (TTHMs) (4)</td>
<td>No</td>
<td>Qrtrly</td>
<td>(Avg.) 41 (Range 20.0 – 56.6)</td>
<td>ug/l</td>
<td>N/A</td>
<td>80</td>
<td>By-product of drinking water disinfection needed to kill harmful organisms TTHMs are formed when source water contains large amounts of organic matter</td>
</tr>
</tbody>
</table>
### Disinfection

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Violation</th>
<th>Date of Sample</th>
<th>Level Detected (Avg/Max) (Range)</th>
<th>Unit Measurement</th>
<th>MCLG MRDLG</th>
<th>Regulatory Limit MCL, TT, AL MRDL</th>
<th>Likely Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entry Point Chlorine Residual (5) &amp; (6)</td>
<td>No</td>
<td>Cont.</td>
<td>(Avg.) 1.10 (Range) 0.11 – 2.08</td>
<td>mg/l</td>
<td>N/A</td>
<td>4.0</td>
<td>Water additive used to control microbes</td>
</tr>
</tbody>
</table>

1 – Distribution Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants. Our highest monthly average Distribution Turbidity measurements detected during the year, 0.18 NTU, occurred in July 2020. The value is below the State’s maximum contaminant level, 5 NTU.

2 – The level presented represents the 90th percentile of the 5 samples 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 from your water system in 2020. The highest 90th percentile value was 0.210 mg/l in September 2020, which is below the Action Level of 1.3 mg/l.

3 – The level presented represents the 90th percentile of the 5 samples that were 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 in your water system. In this case, 5 samples were collected from your water system in 2020. The highest 90th percentile was 35.0 ug/l in September 2020, which is above the Action Level of 15 ug/l. The Action Level was exceeded because the average of the 2 highest levels detected was above 15 ug/l.

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

5 – 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 consumers tap without an unacceptable possibility of adverse health effects. MRDLs are currently not regulated, but in the future they will be enforceable in the same manner as MCLs.

6 – Chlorine residuals are monitored continuously on water treatment plant effluent.
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.

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

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

**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?

As you can see by the table, our system had no violations with the exception of lead. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State. It should be noted that the Action Level for lead was exceeded due to a high result from one of the samples that was taken. 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. The D.C.W.W.A. 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 2020, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.
DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Although our drinking water met or exceeded state and federal regulations, some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline (1-800-426-4791).

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 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.

CLOSING

In closing, the Board Members and staff of the Dutchess County Water and Wastewater Authority wish to 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 and preserve our water sources, which are the heart of our community. Please call our office if you have questions.
Annual Drinking Water Quality Report for 2020
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 contaminates detected along with the possible source. A copy of this report and the complete list and results of organic and inorganic contaminates tested throughout the 2020 year can be obtained by contacting Water Plant Administrator, Randy Alstadt at 451-4173 x2003. We are pleased to present to you the 2020 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 contaminates. The State Health Department’s and the FDA’s regulations establish limits for contaminates 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 2020, 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...
immune system and impaired fetal growth and development. Studies of high exposure levels to PFAS chemicals have 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

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

During normal water years the sodium level varies from 15 – 25 mg/L with higher levels occurring during periods of low rainfall. Customers that are on a salt restricted diet should consult with their physician concerning sodium in their drinking water. Information concerning sodium levels in your water can be obtained at any time by contacting the Water Plant Administrator, Randy Alstadt at 451-4173 x 2003.

Hardness

The water obtained from the Hudson River is considered moderately hard. The average hardness of the plant effluent in 2020 was 74.83 mg/L or 4.38 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.

Water produced by the Poughkeepsies’ Water Treatment Facility was tested multiple times from December 2013 through February 2015 for 6 common PFAS compounds through the EPA’s Unregulated Contaminant Monitoring Rule (UCMR). All samples analyzed during this timeframe had no detection of PFAS compounds above the laboratory’s reporting limit. Additionally, samples were collected on March 4, 2020 from the Hudson River at our intake and the Plant Effluent with no detection of PFAS compounds above the laboratory’s reporting limit in either sample.

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). As part of the new requirements, the Plant Effluent was tested in October 2020 and detected PFOA at 2.00 ng/L and PFOS at an estimated concentration of 1.39 ng/L. Quarterly monitoring will continue through 2021.

### Poughkeepsies’ Water Treatment Facility

#### Table of Detected Contaminants 2020

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Violation</th>
<th>Sample Date(s)</th>
<th>Level Detected</th>
<th>Unit of Measurement</th>
<th>MCL</th>
<th>Regulatory Limit</th>
<th>Likely Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Plant Effluent - Inorganic Contaminants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orthophosphate (reported as Phosphorus)</td>
<td>N/A</td>
<td>2 per day</td>
<td>Average = 0.612 mg/L</td>
<td>N/A</td>
<td>N/A</td>
<td>Orthophosphate is added at the Poughkeepsies’ Water Treatment Facility to inhibit corrosion of lead piping in the distribution system.</td>
<td></td>
</tr>
<tr>
<td>Total Organic Carbon</td>
<td>N/A</td>
<td>1 per week</td>
<td>Average = 1.32 mg/L</td>
<td>N/A</td>
<td>N/A</td>
<td>Naturally present in the environment.</td>
<td></td>
</tr>
<tr>
<td>Turbidity (Plant Effluent)</td>
<td>No</td>
<td>Continuous Monitoring</td>
<td>Average = 0.044 NTU</td>
<td>N/A</td>
<td>MCL = 1 NTU monthly average/ MCL = 5 NTU two day average</td>
<td>Soil runoff</td>
<td></td>
</tr>
<tr>
<td>Turbidity (Filter Effluent)</td>
<td>No</td>
<td>Continuous Monitoring</td>
<td>Average = 0.036 NTU</td>
<td>N/A</td>
<td>TT = 95% of samples &lt; 0.3 NTU</td>
<td>Soil runoff</td>
<td></td>
</tr>
<tr>
<td>Aluminum</td>
<td>No</td>
<td>1 per week</td>
<td>Average = 34.5 µg/L</td>
<td>200</td>
<td>N/A</td>
<td>Erosion of natural deposits; discharge of drilling wastes; discharge from metal refineries.</td>
<td></td>
</tr>
<tr>
<td>Barium</td>
<td>No</td>
<td>9/30/20</td>
<td>0.0206 mg/L</td>
<td>2</td>
<td>MCL = 2</td>
<td>Erosion of natural deposits; discharge of drilling wastes; discharge from metal refineries.</td>
<td></td>
</tr>
<tr>
<td>Bromate</td>
<td>No</td>
<td>Monthly</td>
<td>Average = 5.8 µg/L</td>
<td>250</td>
<td>N/A</td>
<td>Naturally occurring or indicative of road salt contamination.</td>
<td></td>
</tr>
<tr>
<td>Chlorate</td>
<td>No</td>
<td>9/24/20; 10/1/20, 11/5/20; 12/9/20</td>
<td>Average = 200.5 µg/L</td>
<td>N/A</td>
<td>MCL = 10</td>
<td>By-product of drinking water disinfection at treatment plants using Ozone.</td>
<td></td>
</tr>
<tr>
<td>Chloride</td>
<td>No</td>
<td>9/30/20</td>
<td>97.7 mg/L</td>
<td>250</td>
<td>N/A</td>
<td>Naturally occurring or indicative of road salt contamination.</td>
<td></td>
</tr>
<tr>
<td>Nitrate</td>
<td>No</td>
<td>9/30/20</td>
<td>0.60 mg/L</td>
<td>10</td>
<td>MCL = 10</td>
<td>Runoff from fertilizer, Leaking septic tanks, sewage, erosion of natural deposits.</td>
<td></td>
</tr>
<tr>
<td>Nickel</td>
<td>No</td>
<td>9/30/20</td>
<td>0.530 µg/L</td>
<td>N/A</td>
<td>N/A</td>
<td>Naturally occurring, leaching from pipes.</td>
<td></td>
</tr>
<tr>
<td>Sodium</td>
<td>No</td>
<td>Monthly</td>
<td>Average = 31.46 µg/L</td>
<td>N/A</td>
<td>N/A</td>
<td>Naturally occurring; Road salt; Water softeners; Animal waste.</td>
<td></td>
</tr>
<tr>
<td>Sulfate</td>
<td>No</td>
<td>9/30/20</td>
<td>26.2 mg/L</td>
<td>N/A</td>
<td>MCL = 250</td>
<td>Naturally occurring.</td>
<td></td>
</tr>
<tr>
<td><strong>Plant Effluent - Disinfectants</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Free Chlorine Residual</td>
<td>No</td>
<td>Continuous Monitoring</td>
<td>Average = 2.42 mg/L</td>
<td>N/A</td>
<td>MCL = 4</td>
<td>Water additive used to control microbes.</td>
<td></td>
</tr>
<tr>
<td><strong>Plant Effluent - Disinfection Byproducts</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Trihalomethanes (chloroform, bromo-dichloromethane, dibromochloromethane, and bromoform)</td>
<td>No</td>
<td>02/12/20 05/13/20 08/12/20 11/10/20</td>
<td>Stage 2 Calculation² Highest LRAA = 7.1 (Range of detects = 2.36 – 11.6)</td>
<td>N/A</td>
<td>MCL = 80 for four-quarter average</td>
<td>By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.</td>
<td></td>
</tr>
<tr>
<td>Haloacetic Acids (mono-, di-, and trichloroacetic acid, and mono- and di-bromochloroacetic acid)</td>
<td>No</td>
<td>02/12/20 05/13/20 08/12/20 11/10/20</td>
<td>Stage 2 Calculation² Highest LRAA = 6.0 (Range of detects = 2.79 – 5.56)</td>
<td>N/A</td>
<td>MCL = 60 for four-quarter average</td>
<td>By-product of drinking water disinfection needed to kill harmful organisms.</td>
<td></td>
</tr>
<tr>
<td><strong>Plant Effluent – Synthetic Organic Contaminants</strong></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Perfluorooctanoic acid (PFOA)</td>
<td>No</td>
<td>10/19/20</td>
<td>2.00 ng/L</td>
<td>N/A</td>
<td>MCL = 10</td>
<td>Released into the environment from widespread use in commercial and industrial applications.</td>
<td></td>
</tr>
<tr>
<td>Perfluorooctane sulphonate (PFOS)</td>
<td>No</td>
<td>10/19/20</td>
<td>1.39 ng/L</td>
<td>N/A</td>
<td>MCL = 10</td>
<td>Released into the environment from widespread use in commercial and industrial applications.</td>
<td></td>
</tr>
</tbody>
</table>

²Stage 2 Calculation: Average of quarterly samples.
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 present - 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 2020, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

Do I Need to Take Special Precautions?

Although our drinking water met or exceeded state and federal regulations, some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline (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 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.
♦ 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.