

***Annual Drinking Water Quality Report for 2022***  
***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, lead and copper were detected (at one location) at a concentration above the respective action level. The site where the exceedance occurred was notified and they replaced the isolation valves 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](http://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	24.4 (14.1—34.6)	ug/l	0	60	Byproduct of disinfection
Globalfoundries Entry point	No	Quarterly	20.3 (11.7-29.6)	ug/l	0	60	Byproduct of disinfection
Total Trihalomethanes (TTHM) (4)							
Griffith Way Entry Point	No	Quarterly	47.3 (28.0-87.0)	ug/l	0	80	Byproduct of disinfection
Globalfoundries Entry Point	No	Quarterly	46.3 (19-93)	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 2022	90 (1 - 110)	ug/l	0	15	Erosion of natural deposits and corrosion of plumbing systems
Lead (3)	Yes	Aug 2022	310 (1 - 480)	ug/l	0	15	Erosion of natural deposits and corrosion of plumbing systems
Lead (3)	Yes	Oct 2022	(1 - 21)	ug/l	0	15	
Copper (2)	No	Jan 2022	0.18 (0.01-1.40)	mg/l	0	1.3	Erosion of natural deposits and corrosion of plumbing systems.
Copper (2)	No	Aug 2022	0.15 (0.016-1.40)	mg/l	0	1.3	Erosion of natural deposits and corrosion of plumbing systems.
Copper (2)	No	Oct 2022	(.01-.18)	mg/l	0	1.3	
Alkalinity	No	Feb 2022	80	mg/i	n/a	n/a	Soil runoff
Alkalinity	No	Oct 2022	72-74	mg/l	n/a	n/a	Soil runoff
Calcium	No	Feb 2022	28-29	mg/l	n/a	n/a	Soil runoff
Calcium	No	Oct 2022	27	mg/l	n/a	n/a	Soil runoff
Orthophosphate	No	Feb 2022	0.62 – 0.66	mg/l	n/a	n/a	Added for corrosion control
Orthophosphate	No	Oct 2022	0.58 – 0.59	mg/l	n/a	n/a	Added for corrosion control
Specific Conductance	No	Feb 2022	310 - 370	umhos/cm	n/a	n/a	*Physical characteristic
Specific Conductance	No	Oct 2022	340 - 380	umhos/cm	n/a	n/a	*Physical characteristic

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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 0.18 mg/l. The 10 samples that were collected in August the 90<sup>th</sup> percentile was. 0.15 mg/l. The action level for copper was exceeded in two of the twenty samples taken. The October samples were for investigative purposes and not regulatory.

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 90<sup>th</sup> percentile value was 90 ug/l. The 10 samples that were collected in August the 90<sup>th</sup> percentile was 310 ug/l. The action level for lead was exceeded in 4 of the twenty samples taken. The October samples were for investigative purposes and not regulatory.

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 4 of the 20 samples taken from the water system.

[We are required to present the following information on lead in Drinking water.](#)

[The exceedance problem at the one location has been ongoing for the last two years. Trying to eliminate the source of the lead, we suggested that they replace the plumbing and fixtures at the](#)

affected sites. After the work was finished, we resampled in October 2022. We took five samples and then noticed they had not replaced the shut off valves at these sites. We then closed and reopened the shut off valves and took a sixth sample. The first five samples for lead were non-detectable. The sixth sample, the one taken after closing and opening the shut off valve, was in exceedance of the action level for lead.

We asked them to replace the shut off valves. The plumbing work was recently completed, and we are preparing to sample there soon.

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 2022 the CDWTL followed 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.