

Annual Drinking Water Quality Report for 2025
D.C.W.W.A. Greenbush Water System
Violet Ave., Hyde Park, NY, 12538
(Public Water Supply ID# 1330629)

INTRODUCTION

To comply with State regulations, the D.C.W.W.A.- Greenbush 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, your tap water met all State drinking water health standards except for Trihalomethanes, and Chlorides. 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, (PWS # NY 1302774). After the water has been treated, it is delivered to the Poughkeepsie Town Wide Water District, (PWS # NY 1302812), and then to the Greenbush Water District. A copy of the Poughkeepsie Water Treatment Facility Annual Water Quality Report is included with this mailing. During 2025, 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.

During the Summer of 2025 a Harmful Algal Bloom event, (HAB), in the Hudson River affected the Poughkeepsie Water Treatment Plant. When HABs were present, the water treatment plant had to increase disinfection to ensure the water remained safe to drink. This additional disinfection was necessary and successful in protecting against potential health effects associated with the HABs.

In addition to the HAB event the salt front from the Atlantic Ocean traveled up the Hudson River further than usual due to reduced flows in the river caused by drought conditions that were experienced throughout the state. Because of the intrusion of the salt front into our area both Chloride, and Sodium concentrations increased in September, and remained elevated above normal levels until November when the salt front moved back downstream to its normal area in the river.

FACTS AND FIGURES

Our water system serves approximately 805 persons thru 265 service connections. In 2025, there were 0 water main breaks, and 0 service line leaks repaired by the Authority and/ or customers. 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 Health at 845-486-3404.

A Summary of the Regulated Contaminants Detected In Our Treated Water

Microbiological Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG MRDLG	Regulatory Limit MCL, TT, AL MRDL	Likely Source of Contamination
Distribution Turbidity (1)	No	1/2025, 2/2025	(Max Avg.) 0.19	NTU	N/A	MCL > 5NTU	Soil runoff

Inorganic Contaminants

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG MRDLG	Regulatory Limit MCL, TT, AL MRDL	Likely Source of Contamination
Chloride (2)	Yes	10/03/25 – 12/26/25	333 (Range) 44.2 - 486	mg/L	N/A	250	Naturally occurring or indicative of road salt contamination
Copper (3)	No	7/15/25 - 9/30/25	0.108 (Range) 0.017 - 0.245	mg/l	N/A	AL = 1.3	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (4)	No	7/15/25 - 9/30/25	0.40 (Range) <1.0 – 0.70	ug/l	N/A	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits
Sodium (5)	No	10/03/25-12/26/25	(Range) 27.5 - 227.5	mg/L	N/A	*No MCL. See foot note 5 for health effects	Naturally occurring; road salt; Water softeners; Animal waste

Disinfection Byproducts

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG MRDLG	Regulatory Limit MCL, TT, AL MRDL	Likely Source of Contamination
Haloacetic Acids (HAA5) (6)	No	Qtrly	(Avg.) 30.6 (Range) 24.6 – 37.9	ug/l	N/A	60	By-product of drinking water disinfection needed to kill harmful organisms

Disinfection Byproducts (Continued)

Contaminants	Violation Yes/No	Date of Sample	Level Detected (Avg./Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Total Trihalomethanes (TTHMs) (6)	Yes	Qtrly	(Avg.) 122 (Range) 48 – 250	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

Total Trihalomethanes Locational Running Annual Average (LRAA) (TTHMs) (6)	Site 1						
1st Quarter (January – March)	77						
2nd Quarter (April – June)	79						
3rd Quarter (July – September)	114						
4th Quarter (October–December)	122						

Disinfection

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG MRDLG	Regulatory Limit MCL, TT, AL MRDL	Likely Source of Contamination
Entry Point Chlorine Residual (7) & (8)	No	Cont.	(Avg.) 1.82 (Range) 1.23 – 2.40	mg/l	N/A	4.0	Water additive used to control microbes

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, 0.19 NTUs, occurred in January, and February 2025. The value is below the State’s maximum contaminant level, 5 NTUs.

2- Chloride is essential for maintaining good health. Research has not conclusively demonstrated that human exposure to chloride itself causes adverse health effects, although exposure to high levels of certain chloride salts has been associated with adverse health effects in humans. For example, high dietary intake of sodium chloride can be a contributing factor to high blood pressure, but this has been attributed mainly to the presence of sodium. The New York State standard for chloride is 250 milligrams per liter, (mg/L), and is based on chloride’s effects on the taste and odor of water. Our highest single measurement, and our highest average between 2 consecutive samples occurred in October 2025 during the salt front episode. A water advisory was issued in September 2025, and was lifted in November 2025 after levels fell back below the MCL for Chlorides.

3 – The level presented represents the 90th percentile of the 10 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, 10 samples were collected from your water system in 2025. The 90th percentile value was 0.108 mg/l, which is below the Action Level of 1.3 mg/l.

4 – The level presented represents the 90th percentile of the 10 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, 10 samples were collected from your water system in 2025. The 90th percentile was 0.40 ug/l, which is below the Action Level of 15 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 – This level represents the highest annual quarterly average, and range, calculated from data collected. The Locational Running Annual Averages for Trihalomethanes were exceeded in the 3rd, and 4th quarters. A water advisory was issued in December of 2025, and remains in place. Some studies suggest that people who drank water containing trihalomethanes for long periods of time (e.g., 20 to 30 years) have an increased risk of certain health effects. These include an increased risk for cancer and for low birth weights, miscarriages and birth defects. The methods used by these studies could not rule out the role of other factors that could have resulted in the observed increased risks. In addition, other similar studies do not show an increased risk for these health effects. Therefore, the evidence from these studies is not strong enough to conclude that trihalomethanes were a major factor contributing to the observed increased risks for these health effects. Studies of laboratory animals show that some trihalomethanes can cause cancer and adverse reproductive and developmental effects, but at exposures much higher than exposures that could result through normal use of the water. The United States Environmental Protection Agency reviewed the information from the human and animal studies and concluded that while there is no causal link between disinfection byproducts (including trihalomethanes) and human effects, the balance of the information warranted stronger regulations that limit the amount of trihalomethanes in drinking water, while still allowing for adequate disinfection. The risks for adverse health effects from trihalomethanes in drinking water are small compared to the risks for illness from drinking water that is inadequately disinfected.

7 – 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.

8 – 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, the Locational Running Annual Averages for TTHMs were above the MCL for the 3rd and 4th quarters of 2025. Routine flushing is an acceptable method to prohibit the formation of TTHMs in the distribution system, and is a good way to help keep their levels low. We begin annual routine flushing May – October, and have reviewed our flushing program to make adjustments where needed to maximize effectiveness. Also, during the HAB event that occurred during the Summer of 2025 the chlorine dosage at the Poughkeepsie Water Treatment Plant was increased to help mitigate any potential health impacts caused by the algal bloom that occurred during the event. The chlorine dosages were lowered as the event subsided. TTHM lab results indicated that the HAB event was a contributing factor to the elevated TTHM levels. The higher chlorine residuals, and higher presence of organic materials created by the HAB event contributed to the elevated TTHM levels. Please see Foot Note 6 under the above Tables for information on the adverse health effects of TTHMs.

Chloride levels were also above the MCL in October 2025. As the salt front moved back downstream to its normal area in the river Chloride levels began to drop, and in November 2025 had returned to their normal range. Please see Foot Note 2 under the above Tables for information on the adverse health effects of Chlorides.

WE ARE REQUIRED TO PRESENT THE FOLLOWING INFORMATION ON LEAD IN DRINKING WATER

Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. DCWWA is responsible for providing high quality drinking water, and removing lead pipes that we own, but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead, or galvanized service line requiring replacement of the service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water and wish to have your water tested, contact DCWWA at 845-486-3601. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2025, our system was in compliance with applicable State drinking water operating, monitoring, and reporting requirements.

INFORMATION ON LEAD SERVICE LINE INVENTORY

A Lead Service Line (LSL) is defined as any portion of pipe that is made of lead which connects the water main to the building inlet. An LSL may be owned by the water system, owned by the property owner, or both. The inventory includes both potable and non-potable SLs within a system. In accordance with the federal Lead and Copper Rule Revisions (LCRR) our system has prepared a lead service line inventory. For more information regarding the Lead Service Line Inventory, and how to access it, please contact us at 845-486-3601, or DCWWA@DutchessNY.gov.

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.