

Annual Drinking Water Quality Report for 2025
Chesterfield Water District
PO Box 456 Keeseville, NY 12944
(Public Water Supply ID NY1500283)

INTRODUCTION

To comply with State regulations, the Town of Chesterfield issues a report annually to describe 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 80 contaminants and found some of the contaminants at a level higher than the State allows. 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 Dave Winter, Water Operator at (518) 834-9042. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled town board meetings. The meetings are held at the Town Hall at 6:00 pm on the second Tuesday of every month. We would also be pleased to discuss any drinking water issues in person.

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.

The sources of water for the Chesterfield Water District are Butternut Pond, a shallow natural pond, and a 110 foot well that was placed into service in 2020. The water intake piping at Butternut Pond is 16" cast iron piping and extends approximately 180 feet into the pond. Water from Butternut Pond flows by gravity to the dual sand water filtration plant, where the water is blended with well water, filtered and disinfected with liquid chlorine and an orthophosphate corrosion control additive. Water is then pumped into a 308,000-gallon glass lined water tank at the filtration plant and flows to the water district through approximately 25,000 ft. of 12" ductile iron main. There is a 500,000-gallon storage tank located on the west side of Prospect Mountain.

The NYS Dept. of Health completed a source water assessment for this system based on available information. This assessment found a moderate susceptibility to contamination for this source of drinking water. Land cover and its associated activities within the assessment area does not increase the potential for contamination. While there are some facilities present, permitted discharges do not likely represent an important threat to source water quality, based on their density in the assessment area. There are no noteworthy contamination threats associated with other discrete contaminant sources. Additional sources of potential contamination include roadways. While lakes are not generally considered to have a high natural sensitivity to phosphorus, this waterbody already has algae problems. Therefore, additional phosphorus contribution would likely result in future water quality degradation. The Health Dept. will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, planning, and education programs.

FACTS AND FIGURES

Our water system serves approximately 2,300 through 1,018 service connections. The total volume of water produced in 2025 was 91,273,621 gallons and our average daily production was 250,065 gallons per day. The volume of water generated on the highest single day was 424,352 gallons which occurred on February 6, 2025. Approximately 1,000,000 gallons of the water produced was lost from the system due to water main breaks, fire flow, and flushing of the distribution system. The current water rate for residents in the Chesterfield Water District is \$8.00 per 1,000 gallons of water used.

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 (800-426-4791), the New York State Department of Health at (518) 891-1800.

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Microbiological Contaminants							
Turbidity ²	No	Nov. 8, 2025	0.566 ²	NTU	n/a	TT=<1NTU	Soil Runoff
Turbidity	No	Nov 2025	99% < 0.30 ²	NTU	n/a	TT=95% of Samples must be <0.3NTU	Soil Runoff
Radioactive Contaminants							
Radium 226 & 228	No	2020	0.0	pCi/L	0	5 (MCL)	Erosion of natural deposits
Gross Alpha	No	2020	0.0	pCi/L	0	15 (MCL)	Erosion of natural deposits
Inorganic Contaminants							
Barium	No	2025	0.0055	mg/l	2	2(MCL)	Erosion of natural deposits
Copper	No	2025	0.06 ³ ND-0.058 ⁴	mg/L	1.3	1.3 (AL)	Corrosion of household plumbing systems.
Lead	No	2025	ND ³ ND - 0.0056 ⁴	mg/L	0	0.015 (AL)	Corrosion of household plumbing systems.
Sodium	No	2020	32 ⁵	mg/L	n/a	See Note 5	Naturally occurring; Road salt; Water softeners; Animal waste.
Disinfections Byproducts							
Total Trihalomethanes (TTHMs)	No	2025	40.5 ⁶ 21.7 - 69.9 ⁷	ug/L	n/a	80(MCL)	By-products of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains measurable amounts of organic matter.
Haloacetic Acids (HAA5)	No	2025	24.5 ⁶ 20.8 - 26.7 ⁷	ug/L	n/a	60(MCL)	By-products of drinking water chlorination needed to kill harmful organisms.

NOTES:

2 Turbidity is a measure of the cloudiness of our water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Our single highest measurement for the year occurred on 11/08/2025 (0.566 NTU). State regulations require that turbidity must always be below 1.0 NTU. The regulations require that 95% of the turbidity samples collected each month have measurements below 0.3 NTU.

3 The level presented represents the 90th percentile of the 10 sites tested in 2025. 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. In this case, 10 samples were collected at your water system and the 90th percentile value was the second highest value.

4 The level presented represents a range of the samples collected in 2025. The action level for lead and copper was not exceeded at any of the 10 test sites

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 The value represents the highest Locational Running Annual Average of the samples collected.

7 The values represent the range of the samples 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.

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).

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).

EPA Test Method 533 is used to measure PFOA and PFOS which are regulated perfluoroalkyl analytes with an MCL level of 10 nanograms per liter (ng/L) or 10 parts of liquid per 1 trillion parts of liquid. As part of EPA Test Method 533 a total of 25 analytes are also measured as part of that test. Unregulated perfluoroalkyl analytes that were found in our water samples and had detectable levels are shown in the Unregulated Perfluoroalkyl Substances table provided below.

Unregulated Perfluoroalkyl Substances					
MCL level for each Unregulated PFAS Substance = 50,000 ng/L					
Contaminant	Violation (Yes/No)	Date of Sample	Level Detected	Unit Measurement	MCGL or Health Advisory Level ^{1,2}
Perfluorobutanoic Acid (PFBA)	No	2024	2.42	ng/L	NA

1 USEPA Health Advisory Levels identify the concentration of a contaminant in drinking water at which adverse health effects and/or aesthetic effects are not anticipated to occur over specific exposure durations. Health Advisory Levels are not to be construed as legally enforceable federal standards and are subject to change as new information becomes available.

2 All perfluoroalkyl substances, besides PFOA and PFOS, are considered Unspecified Organic Contaminants (UOC) which have a MCL = 50,000 ng/L

WHAT DOES THIS INFORMATION MEAN?

During 2025, the Chesterfield Water District did not have any Maximum Contaminant Level (MCL) violations. Lead was not detected at any of our sampling locations, and the 90th percentile lead concentration did not exceed the Action Level. Even though the lead levels were low, 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. The **Chesterfield Water District** is responsible for providing high quality drinking water and removing lead pipes 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 service line or galvanized requiring replacement 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 Dave Winters, Water Operator, at (518) 834-9042. 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?

All monitoring and reporting requirements are satisfied in a timely manner. The water system is in full compliance with all other regulations, including the preparation of a lead service line inventory. This inventory is publicly available and can be accessed at the **Chesterfield Town Office**.

INFORMATION ON LEAD SERVICE LINE INVENTORY

The **Chesterfield Water District** recently completed a Lead Service Line Inventory (LSLI) and submitted it to the NYS Department of Health on October 16, 2024. We have identified all known service lines and there are two service lines that are galvanized and require replacement. Thank you for your help with this inventory.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised people such as people with cancer undergoing chemotherapy, people 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.
- ◆ 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

Thank you for allowing us to continue to provide your family with quality drinking water this year. 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 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 questions.