

Annual Drinking Water Quality Report for 2025

City of Rensselaer

62 Washington Street, Rensselaer, NY 12144
(Public Water Supply Identification Number NY4100044)

INTRODUCTION

To comply with State regulations, the City of Rensselaer, 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. Included are details about where your water comes from, what it contains, and how it compares to New York State standards. 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 concerning this report or concerning your drinking water please contact: Jim Brady, *Water Department Commissioner, City of Rensselaer, 62 Washington Street, Rensselaer, NY 12144-2628; Telephone (518) 462-6466*. We want our valued customers to be informed about their water service. If you want to learn more, please attend any of our regularly scheduled City Council meetings. They are held on the 1st and 3rd Wednesday of each month, 7:00 PM at the *City Hall, 62 Washington Street*, and Telephone (518) 462-9511.

WHERE DOES OUR WATER COME FROM?

The City of Rensselaer purchases its water from the City of Troy. Water is supplied to us under a contract arrangement. The City of Troy draws its water from a "surface water" supply, the spring fed Tomhannock Reservoir. It is located to the northeast of the City of Troy. Water flows from the Tomhannock Reservoir to the Troy Water Treatment Plant (TWTP), a complete treatment facility. In an effort to lower the formation of disinfection byproducts (DBBPs), TWTP has started to add potassium permanganate at the Tomhannock Reservoir. Potassium permanganate is a strong oxidant that is used to oxidize iron and manganese, but does not produce the DBBPs that chlorine does. Potassium permanganate is being fed seasonally from mid June to about September or October depending on the iron and manganese levels in the raw water. Additionally, chlorine dioxide is added at Melrose Station to oxidize the organic material that leads to the formation of disinfection byproducts when it reacts with chlorine but unlike chlorine, chlorine dioxide does not form DBBPs like THM's or HAA5's. Chlorine dioxide is fed year-round. They also add fluoride at low levels to protect teeth against dental cavities. Finished water from the Troy WTP is piped to our distribution system. We have a 0.75-million-gallon storage tank and two new 5-million-gallon storage tanks to meet consumer demand and provide adequate fire protection.

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 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.

FACTS AND FIGURES

The City provides water through 2,900 service connections to a population of approximately 9,800 people. In 2025 we purchased 1,166,129,000 gallons of water from the City of Troy. Our average daily demand is approximately 3,195,000 gallons. Our single highest day was 6,000,000 gallons. Approximately 64% of the total amount of water purchased from Troy was billed directly to consumers. The balance of approximately 31%, or unaccounted for water, was used for firefighting purposes, hydrant use by City trucks for street sweeping, distribution system leaks and unauthorized use. Residential customers in the City are charged \$5.95 per thousand gallons of water. Residential customers are billed semi-annually with a minimum charge of \$75.00/12,600 gallons. Commercial customers are billed monthly with a minimum charge of \$55.00. *However, we also serve a few customers in North Greenbush and East Greenbush through contract agreement.*

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

In accordance with State regulations, the City of Rensselaer routinely monitors your drinking water for numerous contaminants. We test your drinking water for inorganic contaminants, radiological contaminants, trihalomethanes, haloacetic acids, lead and copper, nitrate, volatile organic contaminants, and synthetic organic contaminants. In addition, we are required to test a minimum of ten samples for coliform bacteria each month. The table presented below depicts which contaminants were detected in your drinking water. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old and is noted.

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 pose 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 Rensselaer County Health Department (518) 270-2711.

WHAT DOES THIS INFORMATION MEAN?

As you can see from the attached tables, we 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 2025, our system was not in compliance with applicable State drinking water operating, monitoring and reporting requirements. We received a violation for not having a Water Supply Emergency Plan (WSEP). This outlines the steps necessary to ensure safe drinking water during a water supply emergency. These plans are required for community water systems serving more than 3,300 people and must be complete, up-to-date and readily accessible

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 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 City of (800-426-4791).

INFORMATION ON LEAD SERVICE LINE INVENTORY

The Lead and Copper Rule Revisions (LCRR) requires every federally defined community and non-transient, non-community water system to develop a service line inventory (also called a lead service line inventory (LSLI)).

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 and have made it publicly accessible.

The City of Rensselaer distribution system has some lead service lines, galvanized lines requiring replacement, or lead status unknown service lines. and you can see the inventory by visiting the website at:
https://www.health.ny.gov/environmental/water/drinking/service_line/NY4100044.htm

INFORMATION ON LEAD

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 City of Rensselaer 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, Fran Welsh (518) 462-36466 #2, or fran.welsh@rensselaer.ny.gov.

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>.

INFORMATION ON FLUORIDE ADDITION

Our system is one of the many drinking water systems in New York State that provides drinking water with a controlled, low level of fluoride for consumer dental health protection. Systems that purchase fluoridated water may want to add: Fluoride is added to your water by City of Troy Water Department before it is 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 a properly controlled level. To ensure that the fluoride supplement in your water provides optimal dental protection, the City of Troy Water Department monitors fluoride levels on a daily basis to make sure fluoride is maintained at a target level of 1.0 mg/l. During 2025 monitoring showed that fluoride levels in your water were within 0.2 mg/l of the target level 100% of the time. None of the monitoring results showed fluoride at levels that approach the 2.2 mg/l MCL for fluoride.

WHAT IS THE SOURCE WATER ASSESSMENT PROGRAM (SWAP)?

To emphasize the protection of surface and ground water sources used for public drinking water, Congress amended the Safe Drinking Water Act (SDWA) in 1996. The amendments require that New York State Department of Health's Bureau of Public Water Supply Protection is responsible for ensuring that source water assessments are completed for all of New York's public water systems.

A source water assessment provides information on the potential contaminant threats to public drinking water sources:

- ◆ each source water assessment will: determine where water used for public drinking water comes from (delineate the source areas)
- ◆ Inventory potential sources of contamination that may impact public drinking water sources
- ◆ Assess the likelihood of a source water area becoming potential contaminated

A SWAP summary for the Troy Water supply is attached to this report.

WATER CONSERVATION TIPS

Although the City is fortunate to have a good supply of water coming from Troy and water restrictions are a rarity, we encourage all residents to conserve. The following are just a few of the simple measures that can be implemented:

- ◆ Only run the dishwasher and clothes washer when there is a full load.
- ◆ Use water saving showerheads.
- ◆ Install faucet aerators in the kitchen and the bathroom to reduce the flow from 4 to 2.5 gallons per minute.
- ◆ Water garden and lawn for only a couple of hours after sunset.
- ◆ Check and repair all leaks in toilets, faucets and outside spigots.
- ◆ Cover swimming pools during hot spells, thereby reducing the need to replenish water.
- ◆ Instead of hosing, sweep driveways and sidewalks.
- ◆ Turn water off and on while washing hands, brushing teeth, shaving etc.
- ◆ 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 an invisible toilet leak. 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.

Not only will these steps conserve precious water resources, they will reduce your water bills.

CAPITAL IMPROVEMENTS

There were no major capital improvements made to the water system in 2025.

CLOSING

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit our customers. We ask that all our customers help us protect our water sources. Please call our office if you have questions at (518) 462-6466.

Tomhannock Reservoir Source Water Assessment Summary

The NYS DOH has completed a Source Water Assessment for the Tomhannock Reservoir. The assessment is summarized below. The assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how likely contaminants could enter the reservoir(s). The susceptibility rating is an estimate of the potential for contamination. It does not mean that the water delivered to your home is or will become unsafe to drink. See section "Are there contaminants in our drinking water?" of this report, for information concerning low levels of contaminants in your water.

The assessment found the amount of pasture in the assessment area results in a potential for protozoa contamination. There is also possible contamination susceptibility associated with landfills in the assessment area. It should be noted that hydrologic characteristics (e.g. basin shape and flushing rates) generally make reservoirs sensitive to existing and new sources of phosphorus and microbial contamination.

Troy's water treatment plant performs multi level treatment to insure that Troy and Rensselaer residents receive safe drinking water. Additionally, as this annual report shows your water is routinely monitored for a great number of potential contaminants.

A copy of the full Source Water Assessments, including a map of the assessment area, is available for review by contacting us at the number provided in this report.

As illustrated in the table above, Troy's monitoring and testing detected some contaminants; all other contaminants were below the maximum levels permitted by the State, known as the maximum contaminant levels (MCL). Many of the test results were **NON-DETECTABLE**. The type/group (number of contaminants in each group) tested for were as follows: volatile organic compounds (52) +MTBE, synthetic organic compounds (38) excluding Dalapon, PFOCs, PFAS, 1,4 Dioxane and asbestos. The inorganic contaminants tested for and non-detectable were, arsenic, cadmium, chromium, , mercury, nickel silver, selenium, antimony, beryllium, thallium, zinc, nitrite, and cyanide.

CITY OF RENNELAER TABLE OF DETECTED CONTAMINANTS							
Public Water Supply Identification Number NY4100044							
Contaminant	Violation Y/N	Date of Sample	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants							
Copper	N	3/13/25-3/19/25	101 ¹	µg/l	1300	AL=1300	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Range of copper concentrations			3.1-831				
Copper	N	9/9/25-9/17/26	52.1 ²		0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits;
Range of copper concentrations			2.8-219				
Lead (samples from Range of lead concentrations)	N	3/13/25-3/19/25	5.8 ³	µg/l	10,000	MCL=10,000 µg/l	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Lead (samples from Range of lead concentrations)	N	9/9/25-9/17/26	6.6 ⁴				
Nitrate	N	8/13/25	336	µg/l			
Stage 2 Disinfection Byproducts (Quarterly samples from 2 sites)							
Haloacetic Acids [HAA5] Polsinello Fuels	N	2/11/25 5/13/25 8/13/25 11/12/25	23.7 11.8-37.9	µg/l	N/A	MCL=60	By-product of drinking water chlorination
Haloacetic Acids [HAA5] Amtrak	N	2/11/25 5/13/25 8/13/25 11/12/25	29.1 19.9-38.6				
TTHM[Total Trihalomethanes] Polsinello	N	2/11/25 5/13/25 8/13/25 11/12/25	69	µg/l	N/A	MCL=80	By-product of drinking water chlorination
Range of values for THM			31.9-92				
TTHM[Total Trihalomethanes] Amtrak	N	2/11/25 5/13/25 8/13/25 11/12/25	65.5 33.7-90.7				
Range of values for THM							
Chlorine	N	Daily testing	1.05 0.32-1.97	mg/l	MRDLG N/A	MRDL MCL=4	Used in the treatment and disinfection of drinking water
Notes							
<p>1. The level presented represents the 90th percentile of 40 test sites. 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, 40 samples were collected at your water system and the 90th percentile value was the 36th sample with the fourth highest value (level detected 101 µg/l). The action level for copper was not exceeded at any of the sites tested in March 2025</p> <p>2. The level presented represents the 90th percentile of 40 test sites. The action level for copper was not exceeded at any of the 40 sites tested in September 2025</p> <p>3. The level presented represents the 90th percentile of 40 test sites. The action level for lead was exceeded at 1 of the 40 sites tested in March 2025</p> <p>4. The level presented represents the 90th percentile of 40 test sites. The action level for lead was exceeded at 2 of the 40 sites tested in September 2025.</p> <p>5. The average is based on a Locational Running annual average. The average shown is the highest LRAA measured. The highest HAA5 LRAAs was in the 4th quarter of 2025.</p> <p>6. The highest TTHM LRAAs was in the 1st quarter for Polsinello and the 4th quarter for Amtrak.</p> <p><i>Non-Detects (ND)</i> - laboratory analysis indicates that the constituent is not present.</p> <p><i>Parts per million (ppm) or Milligrams per liter (mg/l)</i> - one part per million corresponds to one minute in two years or a single penny in \$10,000.</p> <p><i>Parts per billion (ppb) or Micrograms per liter</i> - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.</p> <p><i>Parts per trillion (ppt) or Nanograms per liter (nanograms/l)</i> - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.</p> <p><i>Picocuries per liter (pCi/L)</i> - picocuries per liter is a measure of the radioactivity in water.</p> <p><i>Nephelometric Turbidity Unit (NTU)</i> - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.</p> <p><i>Action Level</i> - the concentration of a contaminant, which, if exceeded, triggers treatment, or other requirements, which a water system must follow.</p> <p><i>Treatment Technique (TT)</i> - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.</p> <p><i>Maximum Contaminant Level</i> - The "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.</p> <p><i>Maximum Contaminant Level Goal</i> The "Goal" (MCLG) is 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.</p> <p><i>Maximum Residual Disinfectant Level (MRDL)</i>: 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.</p> <p><i>Maximum Residual Disinfectant Level Goal (MRDLG)</i>: The level of a drinking water disinfectant below which there is no known or expected risk to health.</p> <p><i>Locational Running Annual Average (LRAA)</i>: The LRAA is calculated by taking the average of the four most recent samples collected at each individual site.</p> <p><i>N/A-Not applicable</i></p>							

CITY OF RENSSELAER TABLE OF DETECTED CONTAMINANTS
Public Water Supply Identification Number NY4100044
Water Purchased from City of Troy NY4100050

Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely source of Contamination
Inorganic Contaminants							
Chloride	N	7/2/25	19.2	mg/l	N/A	MCL=250	Naturally occurring, road salt
Color (avg) range	N	Daily	<1 <1-7	units	N/A	MCL=15	Naturally occurring
Fluoride (avg) range	N	Daily	0.98 0.43-118	mg/l	N/A	MCL=2.2	Water additive which promotes strong teeth
Iron	N	7/2/25	30	µg/l	N/A	MCL=300	Geology; Naturally occurring
Manganese	N	7/2/25	10	µg/l	N/A	MCL=300	Geology; Naturally occurring
Nitrate-as N	N	7/2/25	120	µg/l	10,000	MCL=10,000	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Orthophosphate	N	Daily	2.13	mg/l	N/A	N/A	Water additive use to prevent lead pipe corrosion.
Sodium ¹	N	7/2/25	11.1	mg/l	N/A	N/A	Naturally occurring
Sulfate	N	7/2/25	15.6	mg/l	N/A	MCL=250	Naturally occurring
Turbidity	N	Daily	0.53 0.07-1.37	NTU	N/A	MCL=5	Soil runoff
Radiological Contaminants							
Gross Alpha Particles	N	10/17/22	0.088	pCi/l		MCL=15	Naturally occurring
Gross Beta Particles	N	10/17/22	0.819	pCi/l	0	MCL=4.0	Naturally occurring
Radium 226	N	10/17/22	0.082	pCi/l	0	MCL=5.0	Naturally occurring
Radium 228	N	10/17/22	0.450	pCi/l	0	MCL=5.0	Naturally occurring
Disinfection Byproducts							
Chlorine Dioxide Residual (avg) range	N	Daily	0.010 0.00-0.13	mg/l	0.8	0.8	Used in the treatment and disinfection of drinking water
Chlorate (avg) range	N	Monthly	0.16 0.10-0.23	mg/l	N/A	N/A	Byproduct of chlorine dioxide used in disinfection
Chlorite (avg) range	N	Monthly	0.83 0.75-0.95	mg/l	N/A	1.0	Byproduct of chlorine dioxide used in disinfection
Chlorine avg. range	N	Daily	0.79 0.52-1.08	mg/l	MRDL 4	MRDL 4	Used in the treatment and disinfection of drinking water
Synthetic Organic Chemicals							
Dalapon	N	8/14/25	0.770	µg/l	N/A	50.0	Runoff from herbicide used on rights of way
PFOA	N	2/11/25	2.0	ng/l	0	10	Released into the environment from widespread use in commercial and industrial applications.

Notes:

1. 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.