

Annual Drinking Water Quality 2024

Fayette Water Districts #1, 2, 5, and 6

(Fayette WD #1 – NY4911006, Fayette WD #2 – NY4930010, Fayette WD #5 – NY4911004, Fayette WD #6 – NY4911006)

Safety and security are our top priorities. The Town of Fayette strives to deliver safe drinking water to our customers and to keep the utility and system secure and protected. We are proud to deliver this annual report covering the year 2024.

Important Facts about Our Water!

Fayette Water Districts #1, 2 and 6 purchase water directly from the Village of Waterloo which comes from Seneca Lake. The Fayette WD #5 purchases Village of Waterloo water via the Varick WD #3. The Village of Waterloo treats its water using state-of-the-art disinfection and filtration to remove or reduce harmful contaminants that may come from the source water, which includes cryptosporidium. Waterloo uses chlorine dioxide to disinfect and help oxidize organics and deter Zebra Mussels. Additionally, Waterloo adds activated carbon to adsorb organic contaminants in the raw water which help make the water taste better and provide an additional barrier of protection for the public water supply. The finished product is then re-disinfected with chloramines before it leaves the water plant in order to maintain the distribution system's residual integrity. Last year, your tap water met all State drinking water standards. A Source Water Assessment of Waterloo's water supply is available upon request at the Seneca County Health Department, 2465 Bonadent Drive, Waterloo 13165, (315) 539-1945.

Where Can I Get More Information?

For more information about your source drinking water and for opportunities to get more involved, please contact Jim Bromka, NYS Grade IA & Grade D Certified Water Treatment Plant Operator and NYS & NELAP Certified Environmental Lab Director, by calling (315) 585-9811 or by writing to this address: 41 W. Main St., Waterloo, NY 13165, or the town of Fayette town office. If you have questions concerning the water supply after it passes through our meter station, please contact: Supervisor Jeff Trout at 315-729-6357. Also, you are welcomed and encouraged to attend regular Town Board meetings on the second Thursday of each month, 7:00 pm at the Fayette Town Offices on Yellow Tavern Rd.

Improvements and Changes in Disinfection & Operations:

The Village of Waterloo Water System uses chloramines (small but exact amounts of chlorine and ammonia which are added) instead of chlorine (free chlorine) to provide residual disinfection in your potable water supply distribution system. Chloramines are increasingly being applied by many utilities nationwide as a more effective disinfectant in the distribution system, as they persist in remote areas of the system, produce lower levels of by-products, and have the ability to minimize chlorinous or other objectionable tastes and odors.

Chloraminated water is safe for drinking, cooking, bathing, watering plants, and all the uses we have for water every day. However, there are two groups of people who need to take special care with chloraminated water: kidney dialysis patients and fish owners. Chloramines must be removed from water used in the kidney dialysis process and from water that is used in fish tanks or ponds, because chloramines are harmful when they go directly into the bloodstream. This includes fish/turtle/reptile aquarium water, lobster tanks at grocery stores and restaurants, as well as fish containers at bait shops.

Kidney dialysis patients should check with their physician who will recommend the best pretreatment to be used. Fish tank owners should consult with their local pet store for the best dechloramination agent or filter to use. Chloramines can be reduced by using a high quality granular activated carbon filter but will not be reduced by a reverse osmosis unit or by letting water sit for a few days.

The commitment to your water quality does not end when water leaves the treatment plant. Water samples from homes and businesses throughout the water system are tested daily. We work closely with the Seneca County Health Department to test the water using approved NYSDOH & USEPA procedures.

In 2024 Waterloo added and are now using Horizontal Pressure Filters to remove particles, algae, etc. from the lake water, prior to the four new GAC (Granular Activated Carbon) contactors for removal of harmful PFAS and contaminants from harmful algae blooms (HABs). All the tools are now in place to provide the safest, best tasting water. The town is also adding new water lines to better serve its residents and businesses.

If you have any questions, please contact your physician, pet store, or call us at the Water Dept. at 315-585-6282 or Water Plant Office 585-9811. Town of Fayette town office is 315-585-6282.

The Village of Waterloo 2024 Monitoring Results for Contaminants in Drinking Water Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people 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 about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Microbiological Contaminants							
Contaminant	Violation (Yes/No)	Date of Sample	Level Detected	Unit	MCLG Health Goal	Regulatory Limit (MCL, TT or ACL)	Potential Source of Contamination
Turbidity ¹	NO	4/4/2024	1.21 (momentary)	NTU	N/A	1.00	Soil runoff, algae
Distribution Turbidity ¹	NO	11/14/2024	0.58	NTU	N/A	5.00	Soil runoff
Inorganic Contaminants							
Nitrate	NO	9/25/2024	0.296	mg/L	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrite	NO	9/25/2024	<0.0250	mg/L	1	1	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Antimony	NO	8/6/2024	<0.0004	mg/L	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Sodium ²	NO	8/6/2024	72.7 (single sample)	mg/L	N/A	250	Naturally occurring; Road salt, Water softeners; Animal waste
Barium	NO	8/6/2024	0.0281	mg/L	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits

Arsenic	NO	8/6/2024	<0.0010	mg/l	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Copper ³	NO	6/27/2023-8/1/2023	0.881 (90th percentile) 0.0206-1.45	mg/L	1.3	1.3=AL	Corrosion of plumbing systems; erosion of natural deposits; Leaching from wood preservatives
Lead ⁴	NO	6/27/2023-8/1/2023	8.3 (90th percentile) <1-24.8	ug/L	0	15=AL	Corrosion of plumbing systems & service lines connecting to building mains;; erosion of natural deposits.
Fluoride ^{5a,5b}	NO	8/6/2024	<0.200	mg/L	0.8 - 2.2	2.2	Erosion of natural deposits; Discharge from fertilizer & aluminum factories
Nickel	NO	8/6/2024	<0.0006	mg/L	N/A	N/A	Naturally Occurring

Other

Chlorine Dioxide	NO	8/6/2023	620	ug/L	MRDLG=800	MRDL=800	Water additives - used to control microbes. (Primary Disinfection).
Chlorite	NO	10/23/23	610	ug/L	1000	1000	Byproduct of drinking water disinfection
Chloramines	NO	7/4/2023	3.99	mg/L	N/A	4.00	Water additive used to control microbes. (Primary Disinfection).
Trihalomethanes 1/year (TTHM) Waterloo Fayette WD #1 Fayette WD #2 Fayette WD #5 Fayette WD #6	NO	8/5/2024 8/9/2024 9/24/2024 8/7/24 9/24/2024	5.39 site 1 5.32 site 2 1.76 5.62 8.19 <1	ug/L	0	80	Byproduct of drinking water needed to kill harmful organisms. TTHMs are formed when source water contains organic matter

Haloacetic Acids (HAA5) 1/yr Waterloo Fayette WD #1 Fayette WD #2 Fayette WD #5 Fayette WD #6	NO	8/5/2024 8/9/2024 9/24/2024 9/24/2024 9/24/2024	3.91 site 1 3.21 site 2 3.22 4.14 5.1 2.11	ug/L	N/A	60	Byproduct of drinking water disinfection
TOC (Total Organic Carbon)	NO	8/5/2024	2.13	mg/L	N/A	N/A	Naturally Occurs
PFAS:							
PFOA Perfluorooctanoic acid	NO	2/2/2024 8/5/2024 12/31/2024	1.92 1.37, 1.44 1.92	ng/L	N/A	10	Released into the environment from widespread use in commercial and industrial applications.
PFBA ^{6,7} Perfluorobutanoic acid	NO	2/2/2024 8/5/2024	1.47 1.61	ng/L	N/A	50,000	Released into the environment from widespread use in commercial and industrial
FSA ^{6,7} Fluorotelomer sulfonic acid	NO	2/2/2024	1.04	ng/L	N/A	50,000	Released into the environment from widespread use in commercial and industrial
PFHxA ^{6,7} Perfluorohexanoic acid	NO	12/31/2024	1.10	ng/L	N/A	50,000	Released into the environment from widespread use in commercial and industrial
PFHpA ^{6,7} Perfluoroheptanoic acid	NO	12/31/2024	0.809	ng/L	N/A	50,000	Released into the environment from widespread use in commercial and industrial applications.
PFOS Perfluorooctane sulfonate	NO	8/5/2024 12/31/2024	1.42 0.719	ng/L	N/A	10	Released into the environment from widespread use in commercial and industrial applications.
PFNA ^{6,7} Perfluorononanoic acid	NO	12/31/2024	0.516	ng/L	N/A	50,000	Released into the environment from widespread use in commercial and industrial applications.
HFPO-DA ^{6,7}	NO	8/5/24	2.91	ng/L	N/A	50,000	Released into the environment from widespread use in commercial and industrial applications.
PFPeA ^{6,7} Perfluoropentanoic acid	NO	2024	0	ng/L	N/A	50,000	Released into the environment from widespread use in commercial and industrial applications.

NOTES:

¹Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Our highest single turbidity measurement for the year 2024 was 1.21 NTU. Prior to using our newly installed Horizontal Pressure Filters, we had a momentary single episode of 1.21 NTU caused by very high raw water turbidity, resulting in a spike in turbidity from one of our filters. Turbidity leaving the plant was not over 1.00 ntu. State regulations require that turbidity samples collected have measurements below 1.00 NTU. All levels recorded were within the acceptable range allowed and did not constitute a treatment technique. No distribution system turbidity exceeded the NYS allowance.

²Water containing more than 20mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

³ – The level presented represents the 90th percentile of the 30 sites tested. The action level for copper was not exceeded at one of the sites tested.

⁴ – The level presented represents the 90th percentile of the 30 sites tested. A percentile is a value on a scale of 100 that indicates the percentage 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 at your water system. In this case, thirty samples were collected at your water system and the 90th percentile value was the third highest value (8.3 ug/l). The action level for lead was exceeded at one of the sites tested.

^{5a} The state allows us to monitor some contaminants less than once per year because the concentration of these contaminants do not change frequently. Some of our data, though accurate, are more than one-year-old.

^{5b} Water additive that promotes strong teeth; discharge from fertilizer and aluminum factories. Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Children may get mottled teeth.

Note: The Village of Waterloo *does not* add any fluoride to its drinking water.

⁶ 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.

⁷ All perfluoroalkyl substances, besides PFOA and PFOS, are considered Unspecified Organic Contaminants (UOC) which have an MCL = 0.05 mg/L = 50,000 ng/L.

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 using the best available treatment technology.

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.

Action Level (or 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 (or TT): A required process intended to reduce the level of a contaminant in drinking water.

90th Percentile: 90% of samples are equal to or less than the number in the chart.

Nephelometric Turbidity Unit (NTU): A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

NA: Not applicable.

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).

Nanograms per liter (ng/l): Corresponds to one part of liquid to one trillion parts of liquid (parts per trillion - ppt).

Picograms per liter (pg/l): Corresponds to one part per of liquid to one quadrillion parts of liquid (parts per quadrillion – ppq).

pCi/L (or picocuries per liter): a measure of radioactivity in water.

MRDL: Maximum Residual Disinfectant Level. 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.

MRDLG: Maximum Residual Disinfectant Level Goal. 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.

Our Water Operators are New York State Department of Health certified, or an operator trainee in order to operate the water distribution system.

Are there Contaminants in our Drinking Water?

According to State regulations, the Village of Waterloo routinely monitors your drinking water for various contaminants. Your water is tested for radiological contaminants, inorganic contaminants, nitrate, lead and copper, volatile organic contaminants, synthetic organic contaminants and trihalomethanes. Additionally, your water is tested for E. coli, coliform, and other bacteria. Only the contaminants detected in your drinking water are included in the Table of Detected Contaminants.

Drinking water, including bottled water, may reasonably be expected to contain at least some small amounts of 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).

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, 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).

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 USEPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The New York State Health Department and the FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether your drinking water meets health standards.

WHAT DOES THIS INFORMATION MEAN?

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 Village of Waterloo 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 The Village of Waterloo at 315-585-9811. 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 Lead Service Line (LSL) Inventory

A Lead Service Line 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 by visiting the following website at: health.ny.gov/environmental/water/drinking/service_line/NY4901199.htm.

Is Our Water System Meeting Other Rules That Govern Operations?

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During 2024, we did not

complete all of the required testing for lead and copper and therefore cannot be sure of the quality of your drinking water during that time. Samples will be collected as required between January 1 and June 30, 2025.

Water Conservation Tips

Water conservation measures not only save the supply of our water source but can also cut the cost of water treatment. They can cut the energy costs at the treatment facility associated with pumping, and chemical costs for processing of the water. There are several measures you, as the water consumer can do to conserve water usage.

Conservation measures you can use inside your home include:

1. Fixing leaking faucets, pipes, toilets, etc.
2. Installation of water-saving devices in faucets, toilets and appliances. Low flow fixtures are now the only kind produced since 1994. Simply replacing old fixtures with new will reduce water consumption by nearly one-half.
3. Wash only full loads of laundry.
4. Don't use the toilet for trash disposal.
5. Take short showers. Do not let the water run while shaving, washing, brushing teeth, or cleaning fruits and vegetables.
6. Soak dishes before washing. Run the dishwasher only when full.

You can conserve outdoors as well:

1. Water the lawn and garden as little as possible. If you must water, do so early in the morning or evening.
2. Use mulch around plants and shrubs or choose plants that don't need much water.
3. Repair leaks in faucets and hoses. Use water-saving nozzles.
4. Use water from a bucket to wash your car and save the hose for rinsing.
5. Sweep clippings and leaves from walks and driveways rather than using the hose.
6. Obey all water bans or regulations.

Freeze Precautions:

1. Eliminate drafts: keep basement and garage doors and windows tightly closed, close off crawl space vents and doors, and seal cracks in basement walls or crawl space. Insulate pipes in any unheated part of the home (exterior walls, crawl spaces, basements, cabinets) or spaces where air cannot circulate. Check for damp insulation; water-soaked insulation can cause freeze-ups.
2. Protect the water meter: Be sure the meter box cover is not broken, missing, or out of place. Report broken or missing covers to the Water & Sewer Services.
3. Protect outside faucets. Drain outside faucets and sprinkler systems if a separate shut-off is available. Disconnect and drain garden hoses. Check with a plumber about frost-proof faucets. Caulk any space between the faucet and an outside wall.
4. Open cabinet doors below sinks. If a sink is located against an outside wall, open cabinet doors to allow warm air to reach water pipes.
5. Drain pipes before extended vacations.

Consumer Tips: Appearance:

*If your cold tap water appears brown or red it is probably mineral deposits in your water caused by:

1. A water main break
2. Water Dept. workers flushing a hydrant
3. Vibrations caused by construction.

To alleviate this problem, call the water department to see if the cause is not obvious. Once the reason has been identified and the disruption of the water main has ceased, run your cold water tap until it clears.

*If your water appears cloudy in winter and early spring it is most likely trapped air. Cold water has a much greater capacity to hold gas than warm water and if this tendency is combined with a faucet aerator, your water may appear cloudy due to bubbles. If the water is allowed to sit a short while, the bubbles will eventually rise to the surface and dissipate.

Taste & Odor:

If at any time your water tastes different than normal, please do not hesitate to call the Water Treatment Plant at 315-585-9811. We will do our best to help you find the cause of the anomaly. Except for the annual late summer earthy/musty season due to increased blue-green algae in Seneca Lake, there should not be any reason for your water to taste like anything but plain water.

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 New York State requirements.

Summary of the SWAP (Source Water Assessment Program):

The NYS DOH has evaluated this PWS's (Public Water System's) susceptibility to contamination under the Source Water Assessment Program (SWAP), and their findings are summarized in the paragraph(s) below. It is important to stress that these assessments were created using available information and only estimate the potential for source water contamination. Elevated susceptibility ratings do not mean that source water contamination has or will occur for this PWS. This PWS provides treatment and regular monitoring to ensure the water delivered to consumers meets all applicable standards. This assessment found an elevated susceptibility to contamination for this source of drinking water. The number of agricultural lands in the assessment area results in elevated potential for phosphorus, DBP precursors, and pesticide contamination. While there is not a great density of permitted discharges in assessment areas, the total amount of wastewater discharged from these facilities is high enough to raise the potential for contamination (particularly for protozoa). There is also noteworthy contamination susceptibility associated with other discrete contaminant sources, and these facility types include: CBS and landfills.

Is Our Water System Meeting Other Rules That Govern Operations?

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether your drinking water meets health standards. In 2024 our system was in compliance with applicable standards.

Town Supervisor:

Jeff Trout

Water Operator:

Jim Bromka

Assistant Water Operator:

Jim Sweenburg

Highway Supt.:

Andy Brown

Account Clerk:

Jamie Excel

Water Committee Chairwoman:

Coreen Lowrey