Annual Drinking Water Quality Report for 2024
D.C.W.W.A. Quaker Hills Water System
Hyde Park, NY 12538
(Public Water Supply ID# 1302797)

INTRODUCTION

To comply with State regulations, DCWWA-Quaker 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. PFOS were detected in Quaker Hills water at levels that were equal to the State Maximum Contaminant Level. Affected resident were notified immediately after the sample results were received. 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 Hyde Park Water Plant 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.

The Quaker Hills Water System is fed through groundwater drawn from two drilled wells, both of which are in active service. Disinfection with Sodium Hypochlorite is added at the distribution Entry Point to eliminate pathogens. In the process of turning raw water in to a finished product, the water quality is consistently monitored every step of the way. Treatment is optimized based on these results, and other process control sampling results made along the treatment path. The finished water is then pumped out into the distribution system for customer use. The distribution system is monitored for coliform bacteria, chlorine residuals, and other regulated parameters. Water pumps into a hydro-pneumatic tank located at the Entry Point to provide storage, and pressure for the distribution system. During 2024, our system did not experience any restriction of our water source.

FACTS AND FIGURES

Our water system serves approximately 350 persons through 109 service connections. The total recorded water produced in 2024 was 8,280,500 gallons. The daily average of water treated and pumped into the distribution system based on these recorded flows was 22,686 gallons per day. Our highest single day was 59,000 gallons in July of 2024. Due to an issue with the meter at the plant earlier in the year these flow numbers are based on the flow that was recorded, and do not accurately represent the total flow recorded for the year. The issue with the flow meter was corrected when the meter was replaced in June. For information regarding the amount of water delivered to customers please call our billing department at 845-486-3601. In 2024, there were 2 water main breaks, and 0 service line leaks repaired by the Authority and/ or customers. In 2024, water customers were charged a flat rate of $258.35 per three month billing period.

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. If you wish to have a copy of all test results for all non-detected contaminates please contact the D.C.W.W.A., and we will be happy to provide them to you. Please note that water from the Hyde Park Plant is not fluoridated. 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 at 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

Physical Characteristics							
Contaminants	**Violation Yes/No**	**Date Of Sample**	**Level Detected (Avg/Max) (Range)**	**Unit Measure-ment**	**MCLG**	**Regulatory Limit (MCL, TT or AL)**	**Likely Source of Contamination**
Odor	No	8/23/23	(Max) 2.3	Units	N/A	3	Organic or inorganic pollutants originating from municipal, and industrial waste discharges; natural sources
pH	No	8/23/23	7.1	SU	N/A	N/A	Naturally occurring

Inorganic Contaminants

Contaminants	Violation Yes/No	Date Of Sample	Level Detected (Avg/Max) (Range)	Unit Measure-ment	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Barium – Entry Point	No	12/26/24	(Max) 0.009	mg/L	2	2	Erosion of natural deposits; Discharge of drilling wastes; Discharge of metal refineries
Barium – Well # 1	No	12/13/22	(Max) 0.011	mg/L	2	2	Erosion of natural deposits; Discharge of drilling wastes; Discharge of metal refineries
Chloride – Entry Point	No	4/14/21	(Max) 95	mg/L	N/A	250	Naturally occurring or indicative of road salt contamination
Chloride – Well # 1	No	12/13/22	(Max) 72	mg/L	N/A	250	Naturally occurring or indicative of road salt contamination
Copper (1)	No	8/19/21 - 8/20/21	0.130 (Range) 0.100 - 0.150	mg/L	N/A	AL = 1.3	Erosion of natural deposits; Corrosion of household plumbing systems; Leaching from wood preservatives
Fluoride – Entry Point	No	12/26/24	(Max) 0.058	mg/L	N/A	2.2	Erosion of natural deposits; Water additive promotes strong teeth; Discharge from fertilizer and aluminum factories
Lead (2)	No	8/19/21 - 8/20/21	2.1 (Range) 1.0 – 2.8	ug/L	0	AL = 15	Erosion of natural deposits; Corrosion of household plumbing systems
Manganese – Well # 1	No	12/13/22	(Max) 15	ug/L	N/A	300	Naturally occurring; indicative of landfill contamination
Nickel – Well # 1	No	12/13/22	(Max) 0.024	ug/L	N/A	50,000	Naturally occurring; By-product of some manufacturing processes

Inorganic Contaminants (Continued)

Contaminants	Violation Yes/No	Date Of Sample	Level Detected (Avg/Max) (Range)	Unit Measure-ment	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Nitrate – Entry Point	No	4/22/24	(Max) 1.2	mg/L	10	10	Erosion of natural deposits; Run off from fertilizer use; Leaching from septic tanks; Sewage
Selenium – Entry Point	No	12/26/24	(Max) 0.0019	mg/L	.05	.05	Erosion of natural deposits; Discharge from petroleum and metal refineries; Discharge from mines
Sodium (3)	No	8/23/23	(Max) 44.5	mg/L	N/A	*No MCL. See Foot Note 3 for health effects	Naturally occurring; road salt; Water softeners; Animal waste
Sulfate	No	8/23/23	(Max) 31.2	mg/L	N/A	250	Naturally occurring
Zinc	No	8/23/23	(Max) 0.0482	mg/L	N/A	5	Naturally occurring; Mining Waste

Synthetic Organic Contaminants

Contaminants	Violation Yes/No	Date Of Sample	Level Detected (Avg/Max) (Range)	Unit Measure-ment	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Perfluorooctanoic Acid (PFOS) – Well # 1	No	Qrtrly	4.38 (Range) 3.66 – 6.19	ng/L	N/A	10	Released in to the environment from widespread use in commercial and industrial applications
Perfluorooctanoic Acid (PFOS) – Well # 2 (4)	Yes	Qrtrly	7.63 (Range) 6.34 - 10.0	ng/L	N/A	10	Released in to the environment from widespread use in commercial and industrial applications
Perfluorooctanoic Acid (PFOA) – Well # 1	No	Qrtrly	3.37 (Range) 2.85 – 4.61	ng/L	N/A	10	Released in to the environment from widespread use in commercial and industrial applications

Synthetic Organic Contaminants (Cont.)

Contaminants	Violation Yes/No	Date Of Sample	Level Detected (Avg/Max) (Range)	Unit Measure-ment	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Perfluorooctanoic Acid (PFOA) – Well # 2	No	Qrtrly	5.53 (Range) 5.01 - 6.7	ng/L	N/A	10	Released in to the environment from widespread use in commercial and industrial applications
Perfluoro-butanesulfonic Acid (PFBS)- Well # 1	No	Qrtrly	0.82 (Range) ND – 1.83	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications
Perfluoro-butanesulfonic Acid (PFBS)- Well # 2	No	Qrtrly	1.71 (Range) ND - 2.8	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications
Perfluorohexanoic Acid (PFHxA) – Well # 1	No	Qrtrly	0.91 (Range) ND – 2.13	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications
Perfluorohexanoic Acid (PFHxA) – Well # 2	No	Qrtrly	2.20 (Range) ND - 3.8	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications
Perfluorohexanoic Acid (PFHxS) – Well # 1	No	Qrtrly	0.46 (Range) ND – 0.998	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications
Perfluorohexanoic Acid (PFHxS) – Well # 2	No	Qrtrly	0.51 (Range) ND – 1.14	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications
Perfluorohexanoic Acid (PFHpA) – Well # 1	No	Qrtrly	0.44 (Range) ND – 1.12	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications

Synthetic Organic Contaminants (Cont.)

Contaminants	Violation Yes/No	Date of Sample	Level Detected (Avg./Max) (Range)	Unit Measure-ment	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Perfluorohexanoic Acid (PFHpA) – Well # 2	No	Qrtrly	0.62 (Range) ND – 1.43	ng/L	N/A	50,000	Released in to the environment from widespread use in commercial and industrial applications

Disinfection Byproducts

Contaminants	Violation Yes/No	Date Of Sample	Level Detected (Avg/Max) (Range)	Unit Measure-ment	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Haloacetic Acids (HAA5) (5)	No	8/23/23	2.5	ug/L	N/A	60	By-product of drinking water disinfection needed to kill harmful organisms
Total Trihalomethanes (TTHMs) (5)	No	8/23/23	15.0	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

Disinfection

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measure-ment	MCLG MRDLG	Regulatory Limit MCL,TT,AL MRDL	Likely Source of Contamination
Entry Point Chlorine Residual (6) & (7)	No	Cont.	2.35 (Range) 0.80 – 3.90	mg/L	N/A	4.0	Water additive used to control microbes

1 – The level presented represents the 90th percentile of the 5 sites 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, 5 samples were collected at 5 different sites from your water system. The 90th percentile value was 0.130 mg/L, which is below the Action Level of 1.3 mg/L.

2 – The level presented represents the 90th percentile of the 5 sites that were tested. A percentile is a value on a scale of 100 that indicates the percent 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, 5 samples were collected from 5 different sites at your water system. The 90th percentile was 2.1 ug/L, which is below the Action Level of 15 ug/L.

3—Water containing more than 20 mg/L of sodium should not be used for drinking by people on severely, or moderately restricted sodium diets.

4 – PFOS, PFOA caused a range of health effects when studied in animals at high exposure levels. The most consistent findings were effects on the liver and immune system, and impaired fetal growth and development. Studies of high-level exposures to PFOS, PFOA in people provide evidence that some of the health effects seen in animals may also occur in humans. The United States Environmental Protection Agency considers PFOS, PFOA as having suggestive evidence for causing cancer based on studies of lifetime exposure to high levels of PFOS, PFOA in animals.

5 – This level represents the highest running annual average, and range, calculated from data collected.

6 – 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.

7 – 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.
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).
Nanograms per liter (ng/l):Corresponds to one part of liquid in one trillion parts of liquid (parts per trillion – ppt).

WHAT DOES THIS INFORMATION MEAN?

As you can see by the table, PFOS concentrations in one of our source wells were equal to regulatory limits. An engineering study is under way to determine how to best mitigate the issue of PFOS, PFOA in the source wells. Please see Foot Note 4 under the above Tables for information on the adverse health affects of PFOS, PFOAs.

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 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 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 2024, 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.

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 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 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 & 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 our water sources, which are the heart of our community, and our way of life. Please call our office if you have questions.