

Annual Drinking Water Quality Report for 2018
Schreiber Water Service Area
25 Hillside Avenue
Wingdale, New York 12594
Public Water Supply ID#1315971

INTRODUCTION

To comply with State regulations, DCWWA 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. 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.

Last year, your tap water met all State drinking water health standards except for the Sulfate MCL during the August 2018 sampling. A November 2018 follow up sampling resulted in sulfate not to exceed the MCL.

If you have any questions about this report or concerning your drinking water, please contact the **Dutchess County Water & Wastewater Authority at (845) 486-3601**. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled board meetings. They are generally held on the third Wednesday of each month. The meetings begin at 4:00 and take place in the conference room at 1 Lagrange Ave., Poughkeepsie, NY. Please call our office at 845-486-3601 for agenda details and any last-minute meeting, date, or time changes.

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 system serves 70 residents through 23 service connections. The water source for the Schreiber Water System is two drilled wells on the Schreiber Water System property located off Hillside Avenue. All wells are properly sealed and protected from surface contamination. Water from all sources is metered as it is pumped into a ground storage tank that feeds the distribution system by gravity. Treatment of the water drawn from these wells consists of disinfection with chlorine to destroy microorganisms. Copies of specific test results are available by contacting the Dutchess County Water and Wastewater Authority at (845) 486-3601.

The NYS DOH has completed a source water assessment for this system, based on available information. Possible and actual threats to this water source were evaluated. The State source water assessments include a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the wells. **The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is or will be contaminated.** See section “Are there contaminants in our drinking water?” for a list of the contaminants that have been detected, if any. The source water assessments provide resource managers with additional information for protecting source waters in the future.

The source water assessment has rated our water source as having an elevated susceptibility to microbial and nitrate contamination. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and the residential and agricultural land use and related activities in the assessment area. In addition, the wells draw from fractured bedrock and overlying soils may not provide adequate protection from potential contamination.

The county and state health departments will use this information to direct future source water protection activities. The source water assessment summary for your system is available by calling the DCWWA office at 845-486-3601 and requesting a copy.

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, inorganic compounds, nitrate, 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) or the [Department of Behavioral and Community Health](#) at (845)486-3404.

Table of Detected Contaminants

Inorganic Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected (Average) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Barium	No	8/17	0.02	mg/l	2	2	Discharge of drilling wastes; Discharge of metal refineries Erosion of natural deposits
Copper	No	Dec. 2018 Jun 2018	0.12 (0.0164-0.16) 0.08 (0.0305-0.116)	mg/l	1.3	AL 1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives
Lead	No	Dec. 2018 Jun 2018	0.0009 (<0.0005-0.011) .0013 (<0.0005-0.0014)	mg/l	0	AL 0.015	Corrosion of household plumbing systems; Erosion of natural deposits
Manganese	No	Quarterly 2018	0.0608 (0.084-0.1)	mg/l	N/A	0.3	Naturally occurring; Indicative of landfill contamination
Nitrate	No	4-13-18	0.07	mg/l	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Odor	No	6/09	2	units	N/A	3	Organic or inorganic pollutants originating from municipal and industrial waste discharges; natural sources
Iron (1)	No	Quarterly 2018	0.2 (<0.2-0.2)	mg/l	N/A	0.3	Naturally occurring
Arsenic	No	8/17	0.0006	mg/l	N/A	0.005	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production waste
Chromium	No	8/17	0.004	mg/l	N/A	0.1	Naturally occurring
Nickel	No	8/17	0.002	mg/l	N/A	N/A	Naturally occurring, by product of some manufacturing waste
Selenium	No	8/17	0.0004	mg/l	N/A	0.05	Naturally occurring
Sulfate	Yes	Quarterly 2018	101.25 (34-287)	mg/l	N/A	250	Naturally occurring

Disinfection

Contaminant	Violation Yes/No	Date of Sample	Level Detected Avg (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Total Trihalomethanes (THM)	No	8/17	<2.0	ug/l	0	80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter
Haloacetic Acids (HAA5)	No	8/17	<1.0	Ug/l	N/A	MCL=60	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter
Chlorine Residual	No	Daily in 2018	0.78 (0.5-1.8)	mg/l	N/A	4	Water additive used to control microbes

Radioactive Contaminants

Contaminant	Violation Yes/No	Date of Sample	Level Detected Max (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Gross Beta (2)	No	5/16	4.0	pCi/l	0	50	Erosion of natural deposits
Uranium	No	5/13	4.4	pCi/l	0	20	Erosion of natural deposits

Notes:

1. Iron has no health effects. At 1,000 ug/l a substantial number of people will note the bitter astringent taste of iron. Also, at this concentration, it imparts a brownish color to laundered clothing and stains plumbing fixtures with a characteristic rust color. Staining can result at levels of 50 ug/l, lower than those detectable to taste buds. Therefore, the MCL of 300 ug/l represents a reasonable compromise as adverse aesthetic effects are minimized at this level. Many multivitamins may contain 3000 or 4000 micrograms of iron per capsule.

2. The State considers anything greater than 50 pCi/l to be the level of concern for beta particles.

3. – Sampling and analysis was performed twice in 2018. The samples taken at the entry point of the system after treatment and in the distribution system all were below the AL for lead and copper. To address the leaching of lead from the plumbing in individual homes, when your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Lead and copper sampling will continue to be conducted in 2019 to evaluate the treatment.

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 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).

Picocuries per liter (pCi/L): A measure of the radioactivity in water.

Millirems per year (mrem/yr): A measure of radiation absorbed by the body.

Million Fibers per Liter (MFL): A measure of the presence of asbestos fibers that are longer than 10 micrometers.

LEAD IN YOUR DRINKING WATER

If present, elevated levels of lead can cause serious health problems, especially for pregnant women, infants, and young children. It is possible that lead levels at your home may be higher than at other homes in the community because of materials used in your home's plumbing. The Dutchess County Water & Wastewater Authority is responsible for providing a high-quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

WHAT DOES THIS INFORMATION MEAN?

The MCL was exceeded for Iron in all the samples taken in 2013. Each source well was tested individually for Iron in 2013 and the results shown that while one well is very high in iron, the other well is very low in iron. To correct the finished water iron level to below the MCL we reduced the water taken from the high iron level well and thereby reduce the finished water iron level. We continue with this approach to reduce the iron levels in your water. The average Iron level in 2018 was 0.2 mg/l, which is below the MCL for Iron. All other detected contaminants were below the MCL's. Sulfate exceeded the MCL for August but did not exceed the MCL in subsequent sampling performed in November.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

Our system was compliant in 2018 with all applicable State drinking water operating, monitoring and reporting requirements except for Sulfate.

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 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 fire fighting 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.

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 our customers. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary to address these improvements. We began a more aggressive system flushing program in 2009 to improve water quality that will continue throughout 2019. We flush the system every month during non-freezing weather. We hope this will reduce the amount of taste and odor problems the system encounters. 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.