

Annual Drinking Water Quality Report for 2020
Battisti Water System
Castleton-on-Hudson, New York 12033
Public Water Supply ID # NY4100061

INTRODUCTION

To comply with State regulations, **Battisti 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. 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. 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 Environmental Consultants at 845-486-1030 or American Water at 1-877-426-6999. We want you to be informed about your drinking water.

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 promote public health, the State and the EPA prescribe regulations which limit the number 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 a population of approximately 163 people through 53 service connections. Our water source is two groundwater wells located north of the intersection of Northern Blvd and Orchard Rd. Each well is approximately 40 feet in depth into the Schodack Aquifer. The water is chlorinated at the source prior to entry to the distribution system.

The NYSDOH has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The state source water assessment includes 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 become contaminated. See section "Are there contaminants 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. Our water is derived from 2-drilled wells. The source water assessment has rated one of the wells as having a medium-high susceptibility to microbial contamination and nitrates. These ratings are due to the proximity of a permitted discharge facility (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) to the well. In addition, all wells draw from an unconfined aquifer of unknown hydraulic conductivity. While the source water assessment rates as well as being susceptible to microbial, please note that our water is disinfected to ensure that the finished water delivered to your home meet's New York State's drinking water standards for microbial contamination. A copy of the assessment, including a map of the assessment area can be obtained by contacting American Water at 1-877-426-6999.

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, nitrite, lead and copper, principal organic contaminants, total trihalomethanes, 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 Rensselaer County Health Department at (518) 270-2655.

Table of Detected Contaminants

Contaminant	Date of Sample	Violation Yes/No	Level Detected (Avg/Max) (Range)	MCLG	Regulatory Limit (MCL, MRDL or AL)	Likely Source of Contamination
Nitrate, mg/l	03/2020	N	1.57	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Iron, mg/L	10/2020	N	0.03	N/A	0.3	Naturally occurring.
Barium, mg/L	10/2020	N	0.12	2.0	2.0	Erosion of natural deposits.
Sodium, mg/L	10/2020	N	45.5	N/A	See Heath Effects ¹	Naturally occurring; Road salt; Water softeners.
Zinc, mg/L	10/2020	N	0.01	N/A	5.0	Naturally occurring.
Sulfate, mg/L	10/2020	N	16.5	N/A	250	Naturally occurring.
Chloride, mg/L	10/2020	N	88	N/A	250	Natural occurring or indicative of road salt contamination.
TTHM [Total Trihalomethanes], ug/L	2020	N	1.47	N/A	80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
HAA [Haloacetic Acids], ug/L	2020	N	ND	N/A	60	
Chlorine, mg/L	2020	N	Avg= 0.6	N/A	MRDL= 4	Water additive used to control microbes.
Combined Radium- 226 and 228, pCi/L ²	08/2020	N	1.23	0	5	Erosion and decay of natural deposits.
Gross Beta, pCi/L ²	12/2020	N	0.841	0	50 ^a	
Uranium, ug/L ²	08/2020	N	0.20	0	30 ^b	
Lead, mg/l ³	05/2020 10-12/2020	N	0.0233 (ND – 0.0041) 0.0032 (ND – 0.0034)	0	AL = 0.015	Erosion of natural deposits and Corrosion of plumbing.

Copper, mg/l ³	05/2020 10-12/2020	N	0.070 (0.030 – 0.070) 0.120 (ND – 0.130)	1.3	AL= 1.3	Corrosion of household plumbing. Erosion of natural deposits.
PFOA, ng/l	09-10/2020	N	ND – 1.36	N/A	MCL = 10	Released into the environment from widespread use in commercial and industrial applications.
PFOS, ng/l	09-10/2020	N	ND	N/A	MCL = 10	
1,4 dioxane, mg/l	09-10/2020	N	ND	N/A	MCL = 1	Released into the environment from commercial and industrial sources and is associated with inactive and hazardous waste sites.

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.

2-- Radiological constituents were also sampled on raw water wells, as per health department requirements.

(a) The State considers 50 pCi/L to be the level of concern for beta particles.

(b) 30 µg/l of uranium is approximately 20.1 pCi/L.

3-- The level presented represents the 90th percentile of the 10 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 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. The action level for lead was not exceeded at any of the sites tested. The action level for copper was not exceeded at any of the sites tested. This sampling was done semiannually.

**If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. NYAW is responsible for providing 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 water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

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 contaminants.

Action Level (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.

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).

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.

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 the level allowed by the State.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2020, our system was in compliance with State drinking water operating, and reporting requirements.

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. Immune-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).

INFORMATION FOR NON-ENGLISH-SPEAKING RESIDENTS

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

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 several 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 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. In order 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.