

Annual Drinking Water Quality Report for 2016
Frewsburg Water Department
5 West Main Street
Frewsburg, NY 14738
Public Water Supply ID# NY0600365

INTRODUCTION

To comply with State regulations, Frewsburg Water Department annually issues 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, Daniel Sisson, Water Supervisor, or Brad Long at 716-569-6406. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled village board meetings. The meetings are held on the second Wednesday of every month at 6:30 PM at the Town of Carroll Town Hall, 5 West Main Street, Frewsburg, NY.

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 2,500 people through 800 service connections. Our water source consists of three groundwater wells, #5, #4, and #2A. The water from well #4 is disinfected with chlorine and pumped into the distribution system. The water from well #2A and well #5 is treated using a stripping tower to remove any volatile organic contaminants then disinfected with chlorine prior to being pumped into the distribution system.

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, volatile organic compounds, 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 Chautauqua County Health Department at 716-753-4481.

Table of Detected Contaminants

Contaminant	Violation	Date of Sample	Level Detected	Unit Measurement	Regulatory Limit (MCL/AL)	MCLG	Likely Source of Contamination
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INORGANICS CONTAMINANTS

Nitrate Well #2A	No	Quarterly (2016)	Avg.=5.48 Range=5.26-5.68	mg/l	10 (MCL)	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrate Well 5	No	5/12/16	2.53	mg/l	10 (MCL)	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Lead1	No	9/13/16	2.22 Range=ND-4.62	ug/l	15 (AL)	0	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.
Copper2	No	9/13/16	0.121 Range=0.02-0.129	mg/l	1.3 (AL)	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.
Sulfate	No	8/02/00	14	mg/l	250 (MCL)	N/A	Naturally Occurring
Chloride	No	7/24/08	113	mg/l	250 (MCL)	N/A	Naturally Occurring; or indicative of road salt contamination
Barium Well #2A	No	6/9/14	0.324	mg/l	2 (MCL)	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Barium Well #4	No	6/9/14	0.343	mg/l	2 (MCL)	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Arsenic Well #4	No	6/9/14	4.7	ug/l	10 (MCL)	N/A	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium Well #5	No	6/9/14	0.087	mg/l	2 (MCL)	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits

STAGE 2 DISINFECTION BYPRODUCTS (Hazzard Street)

Total Trihalomethanes	No	8/21/14	9.50	ug/l	80 (MCL)	N/A	By-products of drinking water chlorination TTHM's are formed when source water contains large amounts of organic matter.
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RADIOLOGICAL (WELL 2A)

Gross Beta3	No	3/30/16	2.4	pCi/l	50 (MCL)	0	Decay of natural deposits and man-made emissions.
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RADIOLOGICAL (WELL #5)

Gross Alpha (Well #5)	No	3/19/15 5/28/15	Avg.=1.30 Range=1.26-1.34	pCi/L	15(MCL)	0	Erosion of natural deposits.
Gross Beta3 (Well #5)	No	3/19/15 5/28/15	Avg.=0.769 Range=0.289-1.25	pCi/L	50 (MCL)	0	Decay of natural deposits and man-made emissions.
Radium 226 (Well #5)	No	3/19/15 5/28/15	Avg.=0.238 Range=0.15-0.326	pCi/L	5 (MCL)	0	Erosion of natural deposits
Radium 228 (Well #5)	No	3/19/15 5/28/15	Avg.=0.373 Range=0.155-0.59	pCi/L	5 (MCL)	0	Erosion of natural deposits.
Uranium (Well #5)	No	3/19/15 5/28/15	Avg.=0.402 Range=0.283-0.52	ug/l	30 (MCL)	0	Erosion of natural deposits.

RADIOLOGICAL (WELL #4)

Gross Beta3	No	3/30/16	1.0	pCi/L	50 (MCL)	0	Decay of natural deposits and man-made emissions.
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DISINFECTANTS

Chlorine Residual Well #2A	No	Daily (2016)	Avg.0.26 Range=ND-0.57	mg/l	4(MCL)	N/A	Water additive used to control microbes
Chlorine Residual Well #4	No	Daily (2016)	Avg.0.21 Range=0.19-0.25	mg/l	4 (MCL)	N/A	Water additive used to control microbes
Chlorine Residual Well #5	No	Daily (2016)	Avg.0.24 Range=0.01-0.41	mg/l	4 (MCL)	N/A	Water additive used to control microbes

Notes:

1— The Lead 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 values detected at your water system. In this case, 10 samples were collected at your water system and the 90th percentile value was 2.2 ug/l. The action level for Lead was not exceeded at any of the sites tested.

2 – The Copper level presented represents the 90th percentile of the 10 samples collected. In this case, 10 samples were collected at your water system and the 90th percentile value was 0.121mg/l. The action level for Copper was not exceeded at any of the sites tested.

3- The NYSDOH considers 50 pCi/l to be the level of concern for beta particles.

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 that is 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.

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).

Picocuries per liter (pCi/L): A measure of the radioactivity in 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 the level allowed by the State. Lead and copper were detected within the system but of 10 samples collected none were found exceeding the action levels. We are however required to present the following information on Lead in 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 as a result of materials used in your home's plumbing. The Town of Carroll 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 (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.**

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2016, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements. We relied mostly on wells #2A and well #5. Well #4 was only used a few months out of the calendar year.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Although our drinking water met or exceeded state and federal regulations, 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).

INFORMATION FOR NON-ENGLISH SPEAKING RESIDENTS

Spanish

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

French

Ce rapport contient des informations importantes sur votre eau potable. Traduisezle ou parlez en avec quelqu'un qui le comprend 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 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 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 up 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

Regarding your water bills, if you have any address changes, or are moving please contact the Town Clerk's office to have address changes made. The Clerk's office can be reached at 569-5365. You can drop your water bills off at anytime, if no one is there, there is a drop box right in front of the Town Hall.

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 in order 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.

FIRE HYDRANT FLUSHING STARTING MAY 8 2017