

Frenchtown Water 2019 Annual Water Quality



KEEPING YOU INFORMED!

The Frenchtown Charter Township provides your drinking water and is pleased to present you with the Seventeenth annual water quality report. This report follows the guidelines set by the Michigan Department of Environmental, Great Lakes, and Energy (EGLE). Our goal is to provide you with a safe and dependable drinking water supply. This report illustrates that we are achieving our goals.

LEAD AND COPPER

The Frenchtown Water System will be sampling in 2020 for lead and copper. We will be following all the updated rules on sampling for lead and copper. The results will be available after September 30th. If you have performed samples for us in the past, we will be asking you to do it again in 2020.

WATER QUALITY RESULTS

Frenchtown Township routinely monitors your drinking water according to Federal and State laws. The table in this report shows the results of monitoring period for January 1st to December 31st, 2019 unless noted.

OUR DRINKING WATER

Our drinking water originates from Lake Erie where it is treated to prevent obstructions from Zebra mussels. Raw Water is then pumped to the Water Treatment Plant. The MDEQ has performed a Source Water Assessment of our water supply. Our source water has been categorized as highly susceptible, given land uses and potential contamination sources within the source water area. If you would like more information on the SWA report, please call the Water Utility Director: Rich Weirich



HEALTH AND SAFETY INFORMATION

Drinking water, including bottled water, may be reasonably expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily pose a health risk.

The sources of both tap and bottled drinking waters include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of land through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive materials, and can pick up substances resulting from animals and human activity. More information about contaminants and potential health effects can be obtained by calling the United States Environmental Protection Agency's safe drinking water hotline (800) 426-4791.

Contaminants that may be present in source water include:

- Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic Contaminants, such as salt and metals, which can be naturally occurring, or result from urban storm water runoff and residential uses.
- Organic Chemical Contaminates, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, septic systems, and urban or agricultural runoff (i.e. pesticides and herbicides).
- Radioactive Contaminants, which can be naturally occurring or the result of oil and gas production and mining activities.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential use.

All of these contaminants were below the level of concern in your water. To ensure that tap water is safe, the EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration is in the process of establishing limits for contaminants in bottled water, which must provide the same protection for public health.



DEFINITIONS

Parts per million (ppm) and parts per billion (ppb) – One ppm can be equated to 4 teaspoons of salt in a standard 24-foot backyard pool. One ppb is one teaspoon of salt in an Olympic sized pool.

Maximum Residual Disinfections Level Goal (MRDLG) – The level of drinking water disinfections below which there is no known or expected risk to health.

Maximum Residual Disinfections Level (MRDL) – The highest level of disinfection allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Contaminant Level Goal (MCLG)- The MCLG is the level of contaminant in drinking water below, which there is no known or expected health risk. MCLGs provide for a margin of safety.

Maximum Contaminant Level (MCL)- The MCL is the highest level of a contaminant that is allowed in the drinking water. MCLs are set as close to the MCLGs as feasible, using the best available treatment technology. MCLs are set at very stringent levels by the State and Federal government. To understand the possible health effects, a person would have to drink about two liters of water every day at a MCL level for a lifetime to have a one-in –a-million chance of having the associated health effect.

Nephelometric Turbidity Unit (NTU) – measures clarity.

Treatment Technique (TT) – A required process intended to reduce the level of contaminant in drinking water.

Action Level (AL) – The concentration of a contaminant, which, if exceeded, triggers treatment or other required action a water system must follow.

ND – Not detectable at testing limit



Frenchtown Water Department 2019 Water Quality Test Results



The following chart illustrates the levels at which regulated elements were detected during 2019, unless otherwise noted. Please note that some chemicals, such as chlorine and fluoride, are added to the water to improve public health. We are pleased to report that all the detected substances are within Federal and State limits.

Monitored at the Water Treatment Plant

Regulated Elements and Source		Average	Low	High	Maximum Allowed in	Maximum Level Goal
					Drinking Water (MCL)	(MCLG)
Fluoride	Added to water to promote strong teeth Discharge of fertilizer and aluminum factories Erosion of natural deposits	0.24 ppm	0.17	0.50	4.0 ppm	4.0 ppm
Chlorine	Water additive used to control microbes	0.60 ppm	0.31	0.86	MRDL=4.0 ppm	MRDLG=4.0 ppm
² Turbidity	Soil runoff	0.061 ntu	0.033	0.098	TT	none
Sodium	Naturally occurring mineral	17	Na	Na	none	none
Bromate	Formed when Ozone is used to disinfect Water.	RAA 2.55	1.00	2.80	Sample Date Quarterly	Violation No

Monitored in the Distribution System

⁴Lead and Copper – Monitored at the Customers’ Taps – We collected samples for lead and copper in 2017, since we met the regulations, we are only required to test every three years.

Copper(Cu) Corrosion of customer plumbing	90%= 0.2 ppm	Exceeded MCL- 0	1.3 ppm	1.3 ppm
¹ Lead (Pb) Corrosion of customer plumbing	90%= 1 ppb	Exceeded MCL- 0	15 ppb	0 ppb

³Trihalomethanes and Halo Acetic Acid – Monitored in the Distribution System

	Max LRAA	Low	High	MCL	MCLG
Total Trihalomethanes –by product of Chlorinated water	49.0 ppb	23.0	36.0	80 ppb	0
Halo Acetic Acids – by product of Chlorinated water	25.0 ppb	17.0	27.0	60 ppb	0

Footnotes:

1. 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. Frenchtown Water Department 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 at 1-800-426-4791 or at <http://water.epa.gov/drink/info/lead>.
2. Turbidity measures the cloudiness of the water. For systems that provide filtration, like Frenchtown, turbidity must never exceed 1 NTU, and must not exceed 0.3 NTU in more than 95% of daily samples in any month. All of our samples were below 0.3. This indicates that our treatment process is working effectively.
3. Averages shown for TTHM (Total Trihalomethanes) and HAA5 (Halo Acetic Acids) are the highest locational running annual averages calculated quarterly. Compliance is based on this average.
4. Lead and Copper list the number of homes that exceeded the AL instead of a range of detections.

Frenchtown Water Department Information

Monitoring Requirements Not Met for Frenchtown Township Water Treatment

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 our drinking water meets health standards. During August 2019 we did samples for total trihalomethanes (TTHM) and haloacetic acids (HAA5), but we did not meet the required pH for the samples. Because we did not meet the pH requirement, we can not use the samples as part of our regular monitoring schedule. The results of the test are not able to used for monitoring causes a violation, but does not pose a threat to your water supply.

What should you do? There is nothing you need to do at this time. This in not an emergency. You do not need to boil water or use an alternative source of water. Even though this not an emergency, as our customers, you have the right to know what happened and what we did to correct the situation.

The table below list the contaminants we did not get credit for, how often we are supposed to sample for these contaminants, how many samples we are supposed to take, how many samples we took, when samples have been taken, and the date we will collect follow-up samples.

Contaminant	Required sampling frequency	Number of samples taken	When all samples should have been taken	Date additional samples will be taken
TTHM	2 samples every 3 months	0	08/01/2019 to 08/31/2019	11/01/2019 to 11/30/2019
HAA5	2 samples every 3 months	0	08/01/2019 to 08/31/2019	11/01/2019 to 11/30/2019

What is being done? We collected follow-up samples in November, we worked with the lab to make sure the proper pH level is achieved to complete the sampling in the future.

For more information, please contact Rich Weirich, Water Utility Director at (734) 289-1015.

Please share this information with all other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting the notice in a public place or distributing copies by hand or mails.

This notice is being sent to you by Frenchtown Water

IMPORTANT CONTACTS

Frenchtown Water Plant: (734) 289-1015

Frenchtown Charter Township: (734) 242-3282

EPA Safe Drinking Water Hotline: 800-426-4791

EPA Website: www.epa.gov/safewater

Michigan EGLE Website: www.michigan.gov/EGLE

Frenchtown Charter Township Web Site: www.frenchtowntownship.org

Frenchtown Water Plant business hours: 8am– 4pm

All Water Department emergencies can be reported 7 days a week, 24 hours a day @ **734-289-1015**. One of our water treatment operators will dispatch a distribution service worker to handle the problem.

