

2021 Water Quality Report for Village of Fowlerville

This report covers the drinking water quality for Village of Fowlerville for the 2021 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2021. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and State standards.

Your water comes from 5 groundwater wells, each over Avg. depth of 250-290 ft. Drawing from the Michigan & Marshall Formations watershed. The State performed an assessment of our source water to determine the susceptibility or the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from "very-low" to "very-high" based on geologic sensitivity, well construction, and water chemistry and contamination sources. The susceptibility of our source is [Well # 9 (moderately high) Well # 10 (moderately high) Well #11 (moderately high) Well #12 (moderately low) Well #13 (moderately low)].

Significant sources of contamination: The Village of Fowlerville has no contamination in our wells.

If you would like to know more about the report please contact, Cathy Elliott at the Village Office (517) 223-3771 or via e-mail at celliott@fowlerville.org

- **Contaminants and their presence in water:**

Drinking Water, including bottled water, may reasonably be 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)**.

- **Vulnerability of sub-populations:** Some people may be more vulnerable to contaminants 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 systems disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

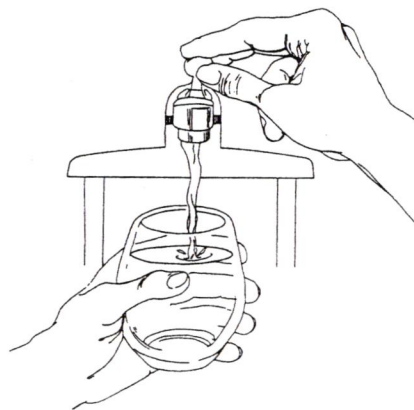
- **Sources of drinking water:** The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs,

springs, and wells. Our water comes from 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 activity.

- Contaminants that may be present in source water include:

- T **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- T **Inorganic contaminants**, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- T **Pesticides and herbicides**, which may come from a variety of sources such as agriculture and residential uses.
- T **Radioactive contaminants**, which are naturally occurring or be the result of oil and gas production and mining activities.
- T **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which provide the same protection for public health.



Regulated Contaminant	MCL, TT, or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violation Yes/No	Typical Source of Contaminant
Iron	N/A	N/A	0.39	0.3-1.6	2021	No	Naturally occurring in our water.
Fluoride (ppm)	4	4	0.4	0.15-0.44	2021	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Sodium ^[1] (ppm)	N/A	N/A	97	38-1.04	2021	No	Erosion of natural deposits
Sulfate (ppm)	N/A	N/A	25	19-25	2021	No	Naturally occurring in our water
Hardness as CaCO ₃	N/A	N/A	277	275-404	2021	No	Naturally occurring in our water
Chlorine ^[2] (ppm)	4	4		0.14-0.58	2018	No	Water additive used to control microbes
Radioactive Contaminant	MCL, TT or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violation Yes/No	Typical Source of Contaminant
Combined radium (pCi/L) Radium 226-228	5	0	4.90	0.86-3.57	2020	No	Erosion of natural deposits
Gross Alpha (pCi/L)	15	0	7.2	0-11	9-20-2021	No	Naturally occurring in our water
Inorganic Contaminant Subject to Action Levels (AL)	Action Level	MCLG	Your Water ^[3]	Range of Results	Year Sampled	Number of Samples Above AL	Typical Source of Contaminant
Lead (ppb)	15	0	3ppb	0-9ppb	2020	0	Lead service lines, corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits
Copper (ppm)	1.3	1.3	0.2ppm	0.013-0.3ppm	2020	0	Corrosion of household plumbing systems; Erosion of natural deposits

*Unregulated contaminants are those for which EPA has not established drinking water standards. Monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.

Information about Lead: If Present, elevated levels of lead can cause serious health problems, especially for pregnant woman and young children. Lead in drinking water primarily from materials and components associated with service lines and home plumbing. **Village of Fowlerville** 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, test 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>.

We will update this report annually and will keep you informed of any problems that may occur throughout the year, as they happen. Copies are available at Fowlerville Village Office, 213 S. Grand Ave. or by calling (517) 223-3771. EXT. 10. This report will not be sent to you.

We invite public participation in decisions that affect drinking water quality. You may contact the Village Office located at 213 S. Grand Ave. Fowlerville, MI or call (517) 223-3771 for more information about your water, or the contents of this report. For more information about safe drinking water, visit the U.S. Environmental Protection Agency at www.epa.gov/safewater/.

Water service line in Fowlerville	798
N/L lines	576
Unknown	222

PFAS

Per- and Polyfluoroalkyl substances (PFAS)

Per- and polyfluoroalkyl substances (PFAS), sometimes called PFC's are a group of chemicals that are resistant to heat, water, and oil. PFAS have been classified by the United States Environmental Protection Agency (U.S. EPA) as an emerging contaminant on the national landscape. For decades, they have been used in many industrial applications and consumer products such as carpeting, waterproof clothing, upholstery, food paper wrappings, fire-fighter foam, and metal plating. They are still used today. PFAS have been found at low levels both in the environment and in the blood samples from the general U.S. population.

These chemicals are persistent, which means they do not break down in the environment. They also bioaccumulate, meaning the amount builds up over time in the blood and organs. Although our understanding of these emerging contaminants is constantly evolving, elevated levels of PFAS have the potential to cause increased cholesterol, changes in the body's hormones and immune system, decreased fertility and increased risk of certain cancers. Links to these health effects in humans are supported by epidemiologic studies and by laboratory studies in animal models.

Are there health advisory levels?

The U.S. EPA has not established enforceable drinking water standards, called maximum contaminant levels, for these chemicals. However, the U.S. EPA has set a lifetime health advisory (LHA) level in drinking water for two PFAS: perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). The PFOA and PFOS LHA is the level, or amount, below which no effect is expected from these chemicals. The LHA level is 70 parts per trillion (ppt) for PFOA and 70 ppt for PFOS. If both PFOA and PFOS are present, the LHA is 70 ppt for the combined concentration.

The amount of PFOA and PFOS combined in the sample collected from our system was ND (non-detected). There are many other PFAS compounds that currently do not have LHA levels. For information on PFOA, PFOS and other PFAS, including possible health outcomes, you may visit these websites: <https://www.epa.gov/pfas>; <https://www.watsdr.cdd.gov/pfas/>; or <http://www.michigan.gov/pfasresponse>.

Who can I call if I have questions about PFAS in my drinking water?

If any resident has additional questions regarding this issue, the State of Michigan Environmental Assistance Center can be contacted at 1-800-662-9278. Representatives may be reached to assist with your questions Monday thru Friday, 8:00 AM to 4:30 PM.

Is it safe to eat fish in these areas?

Wild fish samples are being collected from local lakes and rivers. These samples will be analyzed to determine the levels of PFAS in fish and make recommendations on how much is safe to eat. Some information is already available in the State of Michigan Eat Safe Fish guides, which are available at <http://www.michigan.gov/eatsafefish>.

May I bathe or swim in water containing PFAS?

Yes, information currently available suggests that this is not a major contributor to overall exposure.