

2023 Water Quality Report for Cedar Creek Water Supply

Water Supply Serial Number: 01258

This report covers the drinking water quality for Cedar Creek Water Supply for the 2023 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2023. Included are details about where your water comes from, what it contains, and how it compares to United States Environmental Protection Agency (U.S. EPA) and state standards.

Your water comes from two groundwater wells, each over 360 feet deep. The State has yet to perform an assessment of our source water to determine the susceptibility or the relative potential of contamination. We are currently making efforts with the State to have this assessment performed. However, current and historical water analysis shows no significant sources of contamination in our water supply.

There are no significant sources of contamination included in our water supply. We are making efforts to protect our sources by sampling wells and a distribution site three times per week, as well as testing the water in accordance to EGLE's monitoring schedule.

If you would like to know more about this report, please contact: **Ryan Longstreet by phone at (231) 577-8793 or by email at rlongstreet@iaiwater.com.**

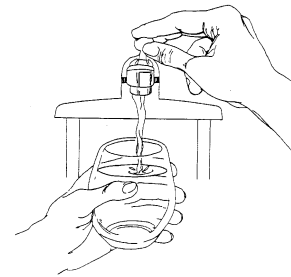
Contaminants and their presence in water: Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. 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. U.S. EPA/Center for Disease Control 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:

- **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 salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **Pesticides and herbicides**, which may come from a variety of sources such as agriculture and residential uses.
- **Radioactive contaminants**, which can be naturally occurring or be the result of oil and gas production and mining activities.
- **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 stormwater runoff, and septic systems.



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

Water Quality Data

The table below lists all the drinking water contaminants that we detected during the 2023 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2023. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All the data is representative of the water quality, but some are more than one year old.

Terms and abbreviations used below:

- **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 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 using the best available treatment technology.
- **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.
- **Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.
- **N/A:** Not applicable
- **ND:** not detectable at testing limit
- **ppm:** parts per million or milligrams per liter
- **ppb:** parts per billion or micrograms per liter
- **ppt:** parts per trillion or nanograms per liter
- **pCi/l:** picocuries per liter (a measure of radioactivity)
- **Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- **Running Annual Average (RAA):** The average of all sample analytical results taken during the previous four calendar quarters.
- **Information about lead:** 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. The Cedar Creek Water Supply 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 have a lead service line it is recommended that you run your water for at least 5 minutes to flush water from both your home plumbing and the lead service line. 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>.
- **Monitoring and Reporting to the Department of Environment, Great Lakes, and Energy (EGLE) Requirements:** The State of Michigan and the U.S. EPA require us to test our water on a regular basis to ensure its safety. We met all the monitoring and reporting requirements for 2023.
- 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 the Cedar Creek Township Hall.
- We invite public participation in decisions that affect drinking water quality. Wexford County Executive Committee meetings are held at the Wexford County Court House at 4:00 PM on the second Tuesday of each month. For more information about your water, or the contents of this report, contact Ryan Longstreet by phone at (231) 577-8793, or by email at rlongstreet@iawater.com. For more information about safe drinking water, visit the U.S. EPA at <http://www.epa.gov/safewater>.

1 Monitoring Data for Regulated Contaminants

Regulated Contaminant	MCL, TT, or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violation Yes/No	Typical Source of Contaminant
Arsenic (ppb)	10	0	ND	N/A	2022	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium (ppm)	2	2	0.02	N/A	2022	No	Discharge of drilling wastes; Discharge of metal refineries; Erosion of natural deposits
Nitrate (ppm)	10	10	ND	N/A	2023	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Fluoride (ppm)	4	4	ND	N/A	2023	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Sodium ¹ (ppm)	N/A	N/A	2.7	N/A	2023	No	Erosion of natural deposits
TTHM Total Trihalomethanes (ppb)	80	N/A	7.6	N/A	2023	No	Byproduct of drinking water disinfection
HAA5 Haloacetic Acids (ppb)	60	N/A	3.0	N/A	2023	No	Byproduct of drinking water disinfection
Chlorine ² (ppm)	4	4	RAA = 0.40	0.01-0.68	2023	No	Water additive used to control microbes
Alpha emitters (pCi/L)	15	0	4.0	N/A	2019	No	Erosion of natural deposits
Combined radium (pCi/L)	5	0	ND	N/A	2019	No	Erosion of natural deposits
Total Coliform	TT	N/A	0	N/A	2023	No	Naturally present in the environment
E. coli in the distribution system (positive samples)	See E. coli note ³	0	0	N/A	2023	No	Human and animal fecal waste

¹ Sodium is not a regulated contaminant.

² The chlorine “Level Detected” was calculated using a running annual average.

³ *E. coli* MCL violation occurs if: (1) routine and repeat samples are total coliform-positive and either is *E. coli*-positive, or (2) the supply fails to take all required repeat samples following *E. coli*-positive routine sample, or (3) the supply fails to analyze total coliform-positive repeat sample for *E. coli*.

Per- and polyfluoroalkyl substances (PFAS)							
Regulated Contaminant	MCL, TT, or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violation Yes/No	Typical Source of Contaminant
Hexafluoropropylene oxide dimer acid (HFPO-DA) (ppt)	370	N/A	ND	N/A	2023	No	Discharge and waste from industrial facilities utilizing the Gen X chemical process
Perfluorobutane sulfonic acid (PFBS) (ppt)	420	N/A	ND	N/A	2023	No	Discharge and waste from industrial facilities; stain-resistant treatments
Perfluorohexane sulfonic acid (PFHxS) (ppt)	51	N/A	ND	N/A	2023	No	Firefighting foam; discharge and waste from industrial facilities
Perfluorohexanoic acid (PFHxA) (ppt)	400,000	N/A	ND	N/A	2023	No	Firefighting foam; discharge and waste from industrial facilities
Perfluorononanoic acid (PFNA) (ppt)	6	N/A	ND	N/A	2023	No	Discharge and waste from industrial facilities; breakdown of precursor compounds
Perfluorooctane sulfonic acid (PFOS) (ppt)	16	N/A	ND	N/A	2023	No	Firefighting foam; discharge from electroplating facilities; discharge and waste from industrial facilities
Perfluorooctanoic acid (PFOA) (ppt)	8	N/A	ND	N/A	2023	No	Discharge and waste from industrial facilities; stain-resistant treatments
Inorganic Contaminant Subject to Action Levels (AL)	Action Level	MCLG	Your Water ⁴	Range of Results	Year Sampled	Number of Samples Above AL	Typical Source of Contaminant
Lead (ppb)	15	0	3.0	ND – 4.00	2021	0	Lead service lines, corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits
Copper (ppm)	1.3	1.3	0.1	ND - 0.148	2021	0	Corrosion of household plumbing systems; Erosion of natural deposits

⁴ Ninety (90) percent of the samples collected were at or below the level reported for our water.



**INFRASTRUCTURE
ALTERNATIVES, INC.**

Water Main Flushing / Water Quality Report

March 5, 2024

Dear Resident:

Infrastructure Alternatives, Inc. staff has scheduled water system flushing for the Cedar Creek Water Supply. There will be two (2) flushing events this calendar year. The **Spring** system flush is scheduled for **May 14th & 15th** and the **Fall** system flush for **October 15th & 16th**. Flushing of the system will occur between the hours of 10:00AM and 3:30 PM.

Important: Your cooperation is needed to make the flushing program successful. Please note the following recommendations.

- 1. Avoid using water during the time period when water flushing will be performed in your area.**
- 2. If appropriate, turn off and by-pass your water softening system one hour before flushing is scheduled to be performed in your area. Do not return your softener to service until after you have flushed your water lead (See number 4)**
- 3. Turn off any automatic water systems, such as time-delayed dishwashers or times lawn sprinkling systems.**
- 4. One hour after the scheduled flushing is performed, prior to using water in your home, open the faucet closest to the point where the water enters your home. Allow the water to run into the nearest drain until it runs clear. If appropriate, return your water softener or automatic water systems to service.**

During these flushing dates, it is a perfect time for customers to flush the plumbing inside of their homes/businesses if desired. To accomplish a proper flushing throughout the plumbing in your home and your service line, open all of your faucets and let the cold water run for 10-15 minutes.

Also, this is a good time to cycle the water in your hot water heater. To cycle all of the water through your water heater, turn on all the hot water faucets in your home/business until the water runs cold. Again, this is only a recommendation and is not required.

If you have any questions, concerns, experience water quality or pressure problems, please feel free to contact us at (231)577-8793.

Thank you for your cooperation,

Tom Lutke

Tom Lutke | Project Manager

IAI

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