

# Annual Water Quality Report 2023

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## Village of Decatur



### *Water Quality Data*

*Water quality monitoring is a crucial aspect to protecting water resources. Under the Clean Water Act, state, tribal and federal agencies monitor lakes, streams, rivers, and other types of water bodies to determine water quality condition. The data generated from these monitoring activities help water resource managers know where pollution problems exist, where to focus pollution control energies and where progress has been made.*

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# Annual Water Quality Report

Reporting year: 2023

**This report covers the drinking water quality for the Village of Decatur for the 2023 calendar year. This information is a snapshot of the quality of 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 Environmental Protection Agency (EPA) and state standards.**

Your water comes from three groundwater wells located within the Village Limits. Well #2 is 116' deep, Well #3 well is 192' deep, and Well #4 is 192' deep. All Wells draw from a Drift clay-covered aquifer system. Our water is pumped fresh from these wells and no treatment is utilized at this time. The State of Michigan has performed an assessment of our source water. Such assessment was completed on all of the sources of drinking water across the country that provide water to 25 people or more. Each system's Wells were given a rating based on how susceptible the source water is to contamination from identified sources. This will help communities understand the potential threats to their water supplies and prioritize needs for protecting the water from contamination. This does not mean that your water is or will become contaminated. The possible susceptibility rating ranges from low to very high; the rating for the Wells in the Village of Decatur is moderately high. A complete copy of this report is available at the Decatur Village Hall.

**The Village of Decatur is making efforts to protect our sources by participating in a Wellhead Protection Program, completed in September 2015.**

**If you would like to know more about the report, please contact The Village of Decatur.**



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- **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. Immunocompromised persons such as individuals with cancer undergoing chemotherapy, organ transplant recipients, 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 about drinking water from their healthcare providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the **EPA's 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, 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.

To ensure that tap water is safe to drink, the EPA prescribes regulations that limit the levels 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.

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## Water Quality Data

The table below lists all the drinking water contaminants that were 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- 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 of the data is representative of the water quality, but some fields 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.
- **N/A**: Not applicable.
- **ND**: Not detectable at testing limit.
- **Ppb**: Parts per billion or micrograms per liter.
- **Ppm**: Parts per million or milligrams 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.
- **Maximum Residual Disinfectant Level (MRDL)**: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.
- **Treatment Technique (TT)**: A required process intended to reduce the level of a contaminant in drinking water.



Regulated Contaminant	MCL	MCLG	Level Detected	Range	Year Sampled	Violation Yes/No	Typical Source of contaminant
Arsenic (ppb)	10	0	3.1	N/A	8-2-18	NO	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Nitrate (ppm)	10	10	<0.10	<0.020	8-15-23	NO	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Fluoride (ppm)	4	4	<0.16	<0.10 <0.16	8-15-23	NO	Erosion of natural deposits. Discharge from fertilizer and aluminum factories.
Sodium (ppm)	N/A	N/A	24	5.9-28	8-15-23	NO	Erosion of natural deposits.
Radioactive Contaminant	MCL	MCLG	Level Detected	Range	Year Sampled	Violation Yes/No	Typical Source of Contaminant
Total Coliform (Total number or % of positive samples/month)	TT	N/A	N/A	N/A	0-Oct.2023	NO	Naturally present in the environment
Alpha emitters (pCi/L)	15	0	ND	N/A	8-18-16	NO	Erosion of natural deposits
Combined radium (pCi/L)	5	0	0.716	ND-3.47	8-31-22	NO	Erosion of natural deposits

\*\* 90 percent of the samples collected were at or below the level reported for our water.

\*\*\* 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 women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Village of Decatur 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>

**Water Service Line Investigations:** As per the amended Michigan Safe Drinking Water Act, 1976 PA 399, water supplies must create and maintain a Complete Distribution System Materials Inventory (CDSMI) and submit it to EGLE by January 1, 2025. Part of the CDSMI is the investigation of individual water service lines. To get a better understanding of the water service lines in a community, EGLE has developed a randomized testing method based on the number of total services. Each randomly selected home must be physically verified externally, at the curb stop, and internally, where the service enters the home. All community water supplies with lead or galvanized service lines previously connected to lead (GPCL) must replace those service lines at a rate averaging 5% per year and must be completed by 2040. Preliminary investigations occurred within the Village from Summer 2023 to Spring 2024 and are complete.

## Per-and poly-fluoroalkyl 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	<2.0	<1.8- <2.0	2023	NO	Discharge and waste from industrial facilities Utilizing the Gen X chemical process
Perfluorobutane sulfonic acid (PFBS) (ppt)	420	N/A	<2.0	<1.8- <2.0	2023	NO	Discharge and waste from industrial Facilities; stain-resistant treatments
Perfluorohexane sulfonic acid (PFHxA) (ppt)	51	N/A	<2.0	<1.8- <2.0	2023	NO	Firefighting foam; discharge and waste from industrial facilities
Perfluorohexanoic acid (PFHxA) (ppt)	400,000	N/A	<2.0	<1.8- <2.0	2023	NO	Firefighting foam; discharge and waste from industrial facilities
Perfluorononanoic acid (PFNA) (ppt)	6	N/A	<2.0	<1.8- <2.0	2023	NO	Discharge and waste from industrial facilities; breakdown of precursor compounds
Perfluorooctane sulfonic acid (PFOS) (ppt)	16	N/A	<2.0	<1.8- <2.0	2023	NO	Firefighting foam; discharge from electroplating facilities; discharge and waste from industrial facilities
Perfluorooctanoic acid (PFOA) (ppt)	8	N/A	<2.0	<1.8- <2.0	2023	NO	Discharge and waste from industrial facilities; stain-resistant treatments
Inorganic Contaminant Subject to Action Levels	Action Level	MCLG	Your water	Range of results	Year Sampled	Number of samples above AL	Typical source of contaminant
Lead (ppb)	15	0	0	N/A	9-2021	0	Lead service lines, corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits
Copper (ppm)	1.3	1.3	0.23	0-0.021	8-8-18	0	Corrosion of household plumbing systems; Erosion of natural deposits

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**Monitoring and Reporting to the Department of Environment, Great Lakes, and Energy (EGLE)**

**Requirements:** The state and EPA require us to test our water regularly 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 Decatur Village Hall (114 N. Phelps St. Decatur MI). This report will not be sent to you unless requested. We invite public participation in decisions that affect drinking water quality. Village of Decatur Council Meetings are held on the first Monday of every month at 7:00 pm at Village Hall. For more information about your water, or the contents of this report, contact Jimmy Ebeling at 269-423-6114 or go to the Village of Decatur Website to view the current and prior Decatur CCRs ([https://decaturmi.org/how\\_do\\_i/forms.php#outer-77](https://decaturmi.org/how_do_i/forms.php#outer-77)). For more information about safe drinking water, visit the U.S. Environmental Protection Agency at [www.epa.gov/safewater/](http://www.epa.gov/safewater/).

