## 2022 Water Quality Report for The Village of Elsie

Water Supply Serial Number: 2120

This report covers the drinking water quality for Village of Elsie for the 2022 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2022. 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 3 groundwater wells, each over 210 feet deep. 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, water chemistry and contamination sources. The susceptibility of our source is moderate.

There are no significant sources of contamination in our water supply. We are making efforts to protect our sources by routine inspections of the area around the well heads for potential contamination sources.

If you would like to know more about this report, please contact: Chris Ormes, Village of Elsie, 125 W. Main St. Elsie Mi 48831, 989-862-4273, www.elsie.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 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 2022 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, 2022. 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.
- <u>Maximum Contaminant Level (MCL)</u>: 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.
- <u>Maximum Residual Disinfectant Level (MRDL)</u>: 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.
- <u>Maximum Residual Disinfectant Level Goal (MRDLG)</u>: 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.
- <u>Treatment Technique (TT)</u>: 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.
- <u>Level 1 Assessment</u>: A study of the water supply to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- <u>Level 2 Assessment:</u> A very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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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	.0043		2019	No ON	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium (ppm) Cadmium (ppm) Chromium (ppm) Nickle (ppm)	2	7	.0016 .0032 .0029 .0043		2019	No	Discharge of drilling wastes; Discharge of metal refineries; Erosion of natural deposits
Nitrate (ppm) Well 1 Well 8/9	10	10	.12 <0.020		2022	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Fluoride (ppm)	4	4	4.		2020	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Sodium¹ (ppm)	N/A	N/A	110		2020	No	Erosion of natural deposits
TTHM Total Trihalomethanes (ppb)	80	N/A	13		2022	°N ON	Byproduct of drinking water disinfection
HAA5 Haloacetic Acids (ppb)	09	N/A	2.2		2022	No	Byproduct of drinking water disinfection
Chlorine <sup>2</sup> (ppm)	4	4	.39	.1479	2022	No	Water additive used to control microbes
Alpha emitters (pCi/L)							
Well 1	15	0	6.4		2020	No	Erosion of natural deposits
Well 8/9			5.5		2018		d data.
Combined radium (pCi/L)							
Well 1	5	0	1.18		2022	<sup>8</sup>	Erosion of natural deposits
Well 8/9			2.4		2018		
Total Coliform	F	N/A	N/A	N/A	2022	No	Naturally present in the environment
E. coli in the distribution system (positive samples)	See E. coli note <sup>3</sup>	0	0	N/A	2022	No	Human and animal fecal waste
Fecal Indicator – E. coli at the source (positive samples)	<b>-</b>	N/A	0	N/A	2022	No	Human and animal fecal waste

- <sup>1</sup> Sodium is not a regulated contaminant.
- <sup>2</sup> The chlorine "Level Detected" was calculated using a running annual average.
- <sup>3</sup> 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)	ces (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) Well 1 Well 8/9	370	N/A	QN QN		2022	o <sub>N</sub>	Discharge and waste from industrial facilities utilizing the Gen X chemical process
Perfluorobutane sulfonic acid (PFBS) (ppt) Well 1 Well 8/9	420	N/A	ND ND		2022	ON ON	Discharge and waste from industrial facilities; stain-resistant treatments
Perfluorohexane sulfonic acid (PFHxS) (ppt) Well 1 Well 8/9	51	N/A	ND ND		2022	No	Firefighting foam; discharge and waste from industrial facilities
Perfluorohexanoic acid (PFHxA) (ppt) Well 1 Well 8/9	400,000	N/A	ND ND		2022	No	Firefighting foam; discharge and waste from industrial facilities
Perfluorononanoic acid (PFNA) (ppt) Well 1 Well 8/9	Q	N/A	ND ND		2022	No	Discharge and waste from industrial facilities; breakdown of precursor compounds
Perfluorooctane sulfonic acid (PFOS) (ppt) Well 1 Well 8/9	16	N/A	ND ND		2022	No	Firefighting foam; discharge from electroplating facilities; discharge and waste from industrial facilities
Perfluorooctanoic acid (PFOA) (ppt) Well 1 Well 8/9	80	N/A	ON ON ON		2022	ON	Discharge and waste from industrial facilities; stain-resistant treatments

Inorganic Contaminant Subject Action to Action Levels (AL)	Action Level	MCLG	Your Water	Range Year of Sample	Range Year of Sampled	Number of Samples Above AL	
Lead (ppb)	15	0	0	0	2022	0	Lead service lines, corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits
Copper (ppm)	1.3	1.3	0.2	0.0-0.2 2022	2022	0	Corrosion of household plumbing systems; Erosion of natural deposits

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

#### Additional Monitoring

Unregulated contaminants are those for which the U.S. EPA has not established drinking water standards. Monitoring helps the U.S. EPA determine where certain contaminants occur and whether regulation of those contaminants is needed.

Unregulated Contaminant Name	Average Level Detected	Range	Year Sampled	Comments
Chloride (ppm)	220		2020	Results of monitoring are available upon request
Hardness (ppm)	430		2020	Results of monitoring are available upon request
Iron (ppm)	0.58		2020	Results of monitoring are available upon request
Sulfate (ppm)	88		2020	Results of monitoring are available upon request
Calcium (ppm)	142		2019	Results of monitoring are available upon request
Magnesium	35		2019	Results of monitoring are available upon request

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 Elsie 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.

Our water supply has 0 lead service lines and 386 service lines of unknown material out of a total of 443 service lines.

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. In 2022, we received some violations related to our drinking water. We will work to ensure that violations like these do not happen again in the future:

- A monitoring/reporting violation for failing to collect a Synthetic Organic Compounds sample during the monitoring period of January 1, 2022, to September 30, 2022. We returned to compliance on November 8, 2022.
- A monitoring/reporting violation for failing to report Total Coliform by June 10, 2022, the deadline for May 1 to May 31, 2022, compliance period. We returned to compliance on June 27, 2022.

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 Village Hall, 125 W. Main St. This report will not be sent to you.

We invite public participation in decisions that affect drinking water quality. The Village of Elsie Council Meetings are on the second Tuesday of each month. Village Office Hours are Monday, Tuesday, Thursday, & Friday 10:00 – 4:00, and Wednesday 11:00 – 6:00. For more information about your water, or the contents of this report, contact Chris Ormes 989-862-4273, or at www.elsie.org. For more information about safe drinking water, visit the U.S. EPA at http://www.epa.gov/safewater.

#### IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

#### Monitoring Requirements Not Met for Village of Elsie

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 January 1, 2022, to September 30, 2022, we did not monitor for Synthetic Organic Compounds (SOCs). However, this violation does not pose a threat to your supply's water quality.

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

The table below lists the contaminant we did not properly test for, how often we are supposed to sample for this contaminant, how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date we collected follow-up samples.

Contaminant	Required sampling frequency	Number of samples taken	When all samples should have been taken	Date additional samples will be collected
Synthetic Organic Compounds	2 samples every 3 Years	0	January 1, 2022, to September 30, 2022	October 1, 2022, to December 31, 2022

What happened? What is being done? We did not collect two SOC samples during the required monitoring period. We will collect the samples by December 31, 2022. We are working hard to ensure that this does not happen again.

For more information, please contact Chris Ormes 989-862-4273

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly. You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by the village of Elsie.

**CERTIFICATION:** 

WSSN: 02120

I certify that this water supply has fully complied with the public notification regulations in the Michigan Safe Drinking Water Act, 1976 PA 399, as amended, and the administrative rules.

La Title: 010 Date Distributed: 4/7/23

#### IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

### Reporting Requirements Not Met for the Village of Elsie

We are required to report the results of your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. While we collected our monthly total coliform sample on time, we did not report the results to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) by the June 10, 2022, deadline for the May 1 to May 31, 2022, compliance period.

#### What should I do?

There is nothing you need to do at this time. This is not an emergency. You do not need to boil water or use an alternative source of water at this time. The results of the sample were negative for bacteria. Even though public health was not impacted, as our customers, you have a right to know what happened and what we did to correct the situation.

#### What happened? What is being done?

While we collected the sample on time, we inadvertently missed reporting the sample results to EGLE by the required deadline. We are required to monitor total coliform by collecting one sample per month. We collected the required sample on May 11, 2022, but failed to report the result until June 27, 2022. We are making efforts to ensure this does not happen again. We have already returned to compliance.

For more information, please contact Chris Ormes (989)862-4273

Please share this information with all the 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 this notice in a public place or distributing copies by hand or mail.

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Crittle: 07C Date Distributed: 4/7/33