2024 Water Quality Report for the Village of Lake Odessa

This report addresses the quality of the drinking water, delivered to our customers, during the calendar year 2024. Included are details about where your water comes from, what is in the water, and how it compares to Federal Environmental Protection Agency (EPA) and Michigan Department of Environment, Great Lakes, and Energy (EGLE) standards.

Your water comes from 3 groundwater wells located NE of the Village. After the water is drawn from these wells, it is pumped into a water treatment facility nearby, where the iron is removed through aeration and filtration. A disinfectant (chlorine gas) is added to the water for protection against microbial contaminates in both 300,000-gallon storage tanks and nearly 17 miles of distribution piping. In addition, fluoride is injected into the water to protect against dental carries (tooth decay). During a source water assessment, we also initiated a Wellhead Protection Plan for the Village, which can be very extensive, and is designed to protect the source of our drinking water. In 2003, EGLE performed a source water assessment on our water supply, it was found to have a moderately high susceptibility to contamination.

- 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 individuals 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, from Surface Water sources 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 a 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 are naturally occurring or may 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 number of certain contaminants allowed 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.

Water Quality Data

The table below lists all the drinking water contaminants which we detected during the 2024 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, data presented in this table is from testing done January 1 – December 31, 2024. 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 may be 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>N/A</u>: Not applicable. <u>ND</u>: not detectable at testing limit. <u>ppb</u>: parts per billion or micrograms per liter. <u>ppm</u>: parts per million or milligrams per liter. <u>pci/l</u>: picocuries per liter (a measure of radioactivity). <u>TU</u>: tritium units (a measure of radioactivity).
- <u>AL:</u> Action Level. The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- 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.
- <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.

Regulated Contaminant	MCL	MCLG	Highest Level Detected	Sample Date (If not in '24)		Violation Yes / No	Typical Source of Contaminant
Chlorine (ppm)*	4	4	Annual Average Total 0.59	Low– High Range 0.34 - 0.94	2 0 2 4	No	Water additive used to control microbes.

Fluoride (ppm)	4	4	0.65	9/16/2024	No	Water additive used to protect against dental caries (tooth decay) Erosion of natural deposits. Discharge from fertilizer and aluminum factories.
Nitrate (ppm)	10	10	ND	9/16/24 No		Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Total Haloacetic Acids (ppm)	0.060	N.A.	0.001	9/16/24 No		By-product of drinking water chlorination.
(ppm) Total Trihalomethanes	0.080	N.A.	0.0058	9/16/24	No	By-product of drinking water chlorination.
PFOS	16 ng/L	N.A.	ND	ND 9/16/24		Ground contamination.
Gross Alpha (Radiological) (pCi/l)	' Ι 15 Ι ΝΙΔ Ι		1.91	9/12/23	No	Erosion of natural deposits.
Special Monitoring and Unregulated Contaminant **			Level Detected	Sample Date (If not in '24)	Typical Source of Contaminant	
Hardness as CaCO3 (ppm)			321	9/16/2024	Erosion of natural deposits	

^{*} These values are based on the Running Annual Average (RAA) of the Bacteriological Sample Sites.

^{**} 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.

Contaminant Subject to AL	Action Level	90 th Percentile	Sample Date (If not in '24)	Number of Samples Above AL	Range Low - High	Major sources in drinking water
Lead (ppb)	15	3	(9/14/24)	0	n/d to 5	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper (ppb)	1300	390	(9/16/24)	0	n/d to 390	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.

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 Lake Odessa 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/index.cfm. The Village has 926 water service connections. Of the 926, there are approximately 50 service lines comprised of unknown material. Of these 50, there are believed to be none that likely contain lead.

Monitoring and Reporting Requirements: EGLE and the EPA require us to test our water on a regular basis to ensure its safety. We met all the monitoring requirements for 2024. The Village failed to submit a Complete Distribution System Materials Inventory report prior to the deadline, which resulted in a violation notice being issued. Due to unknown reasons, sample results from a routine bacteriological water sample in October were not received by EGLE, resulting in a violation notice being issued. These issues have been corrected and the Village is now in compliance.

We invite public participation in decisions that affect drinking water quality. The Village of Lake Odessa holds monthly City Council meetings every 3rd Monday at 7:00pm. For more information about your water, or the contents of this report, contact Jesse Trout at 616-374-7228, or trout@lakeodessa.org. For more information about safe drinking water, visit the U.S. Environmental Protection Agency at www.epa.gov/safewater/.