

2025 Water Quality Report for Tilden Township Water System

Water Supply Serial Number: MI0004640

This report covers the drinking water quality for Tilden Township for the 2025 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2025. 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.

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 2025.

Your water comes from 2 groundwater wells, each over 50 feet. 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 high due to potential sources of contamination of our water supply.

Our water supply has 111 service lines of unknown material out of a total of 140 service lines.

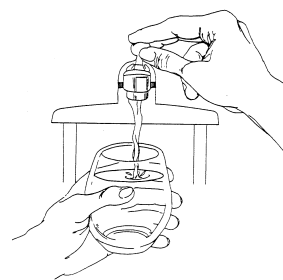
We will update this report annually and will keep you informed of any problems that may occur throughout the year, as they happen. Copies are available at the **Tilden Township Hall 3145 CO RD PG**.

This report will not be sent to you.

We invite public participation in decisions that affect drinking water quality. For more information about your water, or the contents of this report, contact **Matthew Champion Tilden Township DPW**
3145 County Road PG Ishpeming MI 49849

Tilden Township Hall (906)486-8841
Tildentwp@tildentwp.org.

For more information about safe drinking water, visit the U.S. EPA at <http://www.epa.gov/safewater>.



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.

Information for Susceptible Vulnerable Subpopulation

Contaminant	Susceptible Vulnerable Subpopulation	Level of Concern
Fecal coliform or E. coli	Infants, young children, the elderly and people with severely compromised immune supplies	Confirmed Presence
Copper	People with Wilson’s Disease	1.3 ppm (mg/L)
Fluoride	Children	4.0 ppm (mg/L)
Lead	Infants and children	12.0 ppb (ug/L)
Nitrate	Infants below the age of six months	10.0 ppm (mg/L)
Nitrite	Infants below the age of six months	1.0 ppm (mg/L)
Notes:		

- Confirmed presence means that the routine distribution system sample or the repeat sample was total coliform-positive or fecal-positive or E. coli-positive and the other sample (routine distribution system sample or repeat sample) was fecal-positive or E. coli-positive.
- ppm parts per million; ppb parts per billion
- Health effects language is found in R 325.10405

Water Quality Data

The table below lists all the drinking water contaminants that we detected during the 2025 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, 2025. 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
- **ppb**: parts per billion
- **ppt**: parts per trillion
- **mg/L**: milligrams per liter
- **ug/L**: micrograms per liter
- **ng/L**: 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.
- **Level 1 Assessment:** 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.
- **Level 2 Assessment:** 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.

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
Nitrate (ppm)	10	10	0.43 ppm	N/A	2025	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Fluoride (ppm)	4	4	0.61 ppm	N/A	2025	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Sodium ¹ (ppm)	N/A	N/A	12 ppm	N/A	2022	No	Erosion of natural deposits
Nitrite (ppm)	1.0	1.0	ND	N/A	2024	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium (ppm)	2	2	7.2 ppb	N/A	2022	NO	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Cadmium (ppb)	5	5	.02 ppb	N/A	2022	NO	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Antimony (ppb)	6	6	ND	N/A	2022	NO	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)	10	0	ND	N/A	2022	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Beryllium (ppb)	4	4	ND	N/A	2022	No	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries

Chromium (ppb)	100	100	ND	N/A	2022	No	Discharge from steel and pulp mills; erosion of natural deposits
Heptachlor (ppb)	.40	0	.010 (ppb)	N/A	2025	No	Residue of banned pesticide
Heptachlor epoxide (ppb)	.2	0	.010 (ppb)	N/A	2025	No	Breakdown of heptachlor
Selenium (ppb)	50	50	ND	N/A	2025	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium (ppb)	2	.5	ND	N/A	2022	No	Leaching from ore processing sites; discharge from electronics, glass, and drug factories
Total Coliform	TT	N/A	Negative	N/A	2025	Yes	Naturally present in the environment
E. coli in Distribution System (Positive Samples)	See Below *	0	N/A	N/A	2025	No	Human and animal fecal waste
Fecal Indicator – E. coli at the source (positive samples)	TT	N/A	N/A	N/A	2025	No	Human and animal fecal waste
Uranium (ppb)	30	0	.31 (ppb)	N/A	2024	No	Erosion of natural deposits
Combined radium [226 & 228] (pci/l)	5 pCi/L	0	0 (pCi/L)	N/A	2024	No	Erosion of natural deposits
Alpha emitters [gross alpha] (pci/l)	15 pCi/L	0	.0400 (pCi/L)	N/A	2024	No	Erosion of natural deposit

¹ Sodium is not a regulated contaminant.

*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.

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 are more than one year old.

Inorganic Contaminant Subject to Action Levels (AL)	Action Level	MCLG	Your Water ²	Range of Results	Year Sampled	Number of Samples Above AL	Typical Source of Contaminant
Lead (ppb) 90 th Percentile	12	0	5.0 ppb	1-7 ppb	2024	None	Lead service lines, corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits
Copper (ppm) 90 th Percentile	1.3	1.3	1.2 ppm	.36 – 1.1 ppm	2024	None	Corrosion of household plumbing systems; Erosion of natural deposits

² 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
Manganese (mg/L)	0.02	ND – 0.34	2025	Results of monitoring are available upon request

Information about lead: Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. **Tilden Township** is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter, certified by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes 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 and wish to have your water tested, contact **Tilden Township DPW at 906-486-8841** for available resources. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.