



City of Milan

Annual Water Quality Report for 2020

This report covers the drinking water quality for the City of Milan for the calendar year 2020. This information is a snapshot of the quality of the water that we provided to you in 2020. 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 four groundwater wells located throughout the city. The water from each of the wells is pumped to the city's water treatment plant, where air is introduced to the water to oxidize any iron in the water. After air is introduced, the water passes through a series of filters to remove the iron. As the water leaves the plant it is disinfected. The water is then pumped to the distribution system, which is approximately 30 miles of water main throughout the city and to two 500,000-gallon elevated storage tanks, with one located on the northwest side of the city and one located on the east side of US-23.

- **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 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 system 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. EPA/CDC 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.

If you would like more information about your water, please call the Milan Water Department at 734-439-2408 or 734-439-1501.

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 storm water runoff, industrial or domestic wastewater discharge, 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.

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 storm runoff, and septic systems.

Water service lines in the City of Milan:

Total – 2,495

Lead service lines – 127

Unknown material service lines – 1,204

One lead service line was replaced in 2020

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

Public participation is welcome on the second and fourth Monday on a monthly basis at the Milan City Council meeting. Details can be found at www.milanmich.org.

The table below lists all the drinking water contaminants that we detected during the 2020 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 from January 1 to December 31, 2020. 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 data is representative of the water quality, but some may be more than one year old.

Water Quality Data

Your water comes from 4 groundwater wells, each between 80 to 100 feet deep. The State of Michigan performed an assessment of our source water in 2003 to determine the susceptibility or the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from “very high” to “very low” based primarily on geologic sensitivity, water chemistry and contaminant sources. The susceptibility of our source is “high.” Information from this report can be obtained by contacting the Milan Water Department.

We are making efforts to protect our sources by the previous participation in a Wellhead Protection Program, in which the delineation of the area that provides water to our source has been identified. Continued participation in this program will further our efforts to identify and protect our sources. If you have additional questions or concerns, please call the Milan Water Department at 734-439-2408 or the Michigan EGLE Drinking Water and Environmental Health Division at 517-284-6544.

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 Disinfection Level (MRDL):** The highest level of disinfection allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Maximum Residual Disinfection Level Goal (MRDLG):** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG’s do not reflect the benefits of use of disinfectants to control microbial contaminants.
- **N/A:** Not applicable.
- **ND:** Not Detected
- **ppm:** parts per million or milligrams per liter. One ppm can be equated to a single penny in \$10,000.
- **ppb:** parts per billion or micrograms per liter. One ppb can be equated to a single penny in \$10,000,000.
- **Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **RAA:** Running Annual Average. Average of test results for previous year to current year.

Regulated Contaminants	MRDL	MRDLG	RAA	Range	Year Sampled	Violations Yes/No	Typical Sources of Contaminant
Chlorine (ppm)	4	4	0.43	0.20 – 1.60	2020	No	Water additive used to control microbes

Regulated Contaminants	MCL	MCLG	RAA	Range	Sample Date	Violations	Typical Sources of Contaminant
TTHM - Total Trihalomethanes (ppb)	80	N/A	45	30 - 61	10/14/2019	No	Byproduct of drinking water disinfection
HAA5 - Haloacetic Acids (ppb)	60	N/A	9	0 - 18	10/14/2019	No	Byproduct of drinking water disinfection

Contaminants	MCL	MCLG	Level Detected	Range	Sample Date	Violations	Typical Sources of Contaminants
Fluoride (ppm)	4	4	0.5	N/A	9/3/2020	No	Erosion of natural deposits
Sodium (ppm)	N/A	N/A	23	N/A	9/3/2020	No	Naturally present in groundwater
Hardness (ppm)	N/A	N/A	420	N/A	9/3/2020	No	Naturally present in groundwater
Nitrate (ppm)	10	10	0.14	N/A	9/3/2020	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Contaminant Subject to Action Levels (AL)	Action Level	MCLG	Your Water ¹	Range of Results	Year Sampled	Number of Samples Above AL	Typical Sources of Contaminant
Lead* (ppb)	15	0	7	ND - 17	2018	1	Lead service lines, corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits
Copper** (ppb)	1300	1300	630	100 - 860	2018	0	Corrosion of household plumbing systems; Erosion of natural deposits

¹ Ninety (90) percent of the samples collected were at or below the level reported for your water. Lead and Copper samples taken every three years. Next Lead and Copper sampling takes place in 2021.

***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 City of Milan 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>.

Infants and children who drink water containing lead could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for the City of Milan

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 October 1, 2020 to October 31, 2020, we were required to take one sample from designated locations and have them analyzed for trihalomethanes (TTHM) and haloacetic acids (five) (HAA5). We inadvertently missed collecting samples before October 31, 2020. Therefore, we cannot be sure of the quality of your drinking water during that time.

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 are doing to correct the situation.

The table below lists the contaminants we did not properly test for, how often we are supposed to sample for these contaminants, how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the dates we will collect follow-up samples.

Contaminant	Required sampling frequency	Number of samples taken	When all samples should have been collected	Date samples will be collected
TTHM	1 sample every year	0	October 1, 2020 – October 31, 2020	October 1, 2021 – October 31, 2021
HAA5	1 sample every year	0	October 1, 2020 – October 31, 2020	October 1, 2021 – October 31, 2021

What happened? What is being done? We inadvertently missed collecting a sample during October 2020. We are making every effort to assure this does not happen again. We will be collecting follow-up samples in October 2021.

For more information, please contact the Milan Water Department at 734-439-2408.

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.

This notice is being sent to you by the City of Milan.

CERTIFICATION:

WSSN: 04380

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.

Signature:  Title: Operator In Charge Date Distributed: 5/28/2021

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for the City of Milan

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. Following a pressure loss in June 2020, we did not monitor or test for total coliform bacteria and therefore cannot be sure of the quality of our drinking water during that time.

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.

What happened? What is being done? A pressure loss occurred in the drinking water system during June 2020. When a pressure loss occurs, a boil water advisory should be issued until samples can be tested to ensure the safety of the water. We did not issue a boil water advisory or collect samples at that time. Sampling was conducted on 06/25/2020 and shows that the water meets Safe Drinking Water Act standards. We are taking steps to ensure that the proper procedure is followed in the future.

For more information, please contact the Milan Water Department at 734-439-2408.

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