

# City of Buffalo

## 2024 Drinking Water Report

This report contains important information about your drinking water. Have someone translate it for you or speak with someone who understands it. *Información importante. Si no la entiende, haga que alguien se la traduzca ahora.*

### Make Safe Drinking Water

Your drinking water comes from a groundwater source: five wells ranging from 310 to 372 feet deep, that draw water from the Quaternary Buried Artesian aquifer.

Buffalo works hard to provide you with safe and reliable drinking water that meets federal and state water quality requirements. The purpose of this report is to provide you with information on your drinking water and how to protect our precious water resources.

Contact **Cara Hesse, Water Superintendent**, at (763) 684-5432 or [cara.hesse@ci.buffalo.mn.us](mailto:cara.hesse@ci.buffalo.mn.us) if you have questions about Buffalo's drinking water. You can also ask for information about how you can take part in decisions that may affect water quality.

The U.S. Environmental Protection Agency sets safe drinking water standards. These standards limit the amounts of specific contaminants allowed in drinking water. This ensures that tap water is safe to drink for most people. The U.S. Food and Drug Administration regulates the amount of certain contaminants in bottled water. Bottled water must provide the same public health protection as public tap 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 Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

### Buffalo Monitoring Results

This report contains our monitoring results from January 1 to December 31, 2024.

We work with the Minnesota Department of Health to test drinking water for more than 100 contaminants. It is not unusual to detect contaminants in small amounts. No water supply is ever completely free of contaminants. Drinking water standards protect Minnesotans from substances that may be harmful to their health.

Learn more by visiting the Minnesota Department of Health's webpage **Basics of Monitoring and testing of Drinking Water in Minnesota** (<https://www.health.state.mn.us/communities/environment/water/factsheet/sampling.html>).

### How to Read the Water Quality Data Tables

The tables on the ensuing pages show the contaminants we found last year or the most recent time we sampled for that contaminant. They also show the levels of those contaminants and the Environmental Protection Agency's limits. Substances that we tested for but did not find are not included in the tables.

We sample for some contaminants less than once a year because their levels in water are not expected to change from year to year. If we found any of these contaminants the last time, we sampled for them, we included them in the tables in this report with the detection date.

We may have done additional monitoring for contaminants that are not included in the Safe Drinking Water Act. To request a copy of these results, call the Minnesota Department of Health at 651-201-4700 between 8:00 a.m. and 4:30 p.m., Monday through Friday.

### Explaining Special Situations for the Highest Result and Average

Some contaminants are monitored regularly throughout the year and rolling (or moving) annual averages are used to manage compliance. Because of this averaging, there are times where the Range of Detected Test Results for the calendar year is lower than the Highest Average or Highest Single Test Result, because it occurred in the previous calendar year.

### Definitions

- **AL (Action Level):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **EPA:** Environmental Protection Agency
- **MCL (Maximum contaminant level):** 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.
- **MCLG (Maximum contaminant level goal):** 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.
- **MRDL (Maximum residual disinfectant level):** 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.
- **MRDLG (Maximum residual disinfectant level goal):** 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.

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### Definitions (cont)

- **N/A (Not applicable):** Does not apply
- **ppt (parts per trillion):** One part per trillion is like one drop in one trillion drops of water, or about one drop in an Olympic sized swimming pool. ppt is the same as nanograms per liter (ng/l).
- **ppb (parts per billion):** One part per billion in water is like one drop in one billion drops of water, or about one drop in a swimming pool. ppb is the same as micrograms per liter (µg/l).
- **ppm (parts per million):** One part per million is like one drop in one million drops of water, or about one cup in a swimming pool. ppm is the same as milligrams per liter (mg/l).
- **PWSID:** Public water system identification.

### Monitoring Results - Regulated Substances

#### Lead & Copper - Tested at customer taps

Contaminant (Date, if sampled in previous years)	EPA's Ideal Goal (MCLG)	EPA's Action Level	90% of Results Were Less Than	Number of Homes with High Levels	Range of Detected Test Results	Violation	Typical Sources
<b>Lead (08/04/22)</b>	0 ppb	90% of homes less than 15 ppb	1.84 ppb	0 out of 31	0 - 3.4 ppb	NO	Corrosion of household plumbing.
<b>Copper (08/04/22)</b>	0 ppm	90% of homes less than 1.3 ppm	0.45 ppm	0 out of 31	0.02 - 0.88 ppm	NO	Corrosion of household plumbing.

#### Inorganic & Organic Contaminants - Tested in drinking water

Contaminant (Date, if sampled in previous years)	EPA's Ideal Goal (MCLG)	EPA's Limit (MCL)	Highest Average or Highest Single Test Result	Range of Detected Test Results	Violation	Typical Sources
<b>Nitrate</b>	10 ppm	10 ppm	0.3 ppm	N/A	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
<b>Barium (06/03/20)</b>	2 ppm	2 ppm	0.09 ppm	N/A	NO	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposit.

#### Contaminants Related to Disinfection - Tested in drinking water

Substance (Date, if sampled in previous years)	EPA's Ideal Goal (MCLG or MRDLG)	EPA's Limit (MCLG or MRDL)	Highest Average or Highest Single Test Result	Range of Detected Test Results	Violation	Typical Sources
<b>Total Trihalomethanes (TTHMs)</b>	N/A	80 ppb	85 ppb	15.20 - 85.00 ppb	NO	By-product of drinking water disinfection.
<b>Total Haloacetic Acids (HAA)</b>	N/A	60 ppb	42.5 ppb	6.80 - 42.50 ppb	NO	By-product of drinking water disinfection.
<b>Total Chlorine</b>	4.0 ppm	4.0 ppm	0.82 ppm	0.45 - 1.00 ppm	NO	Water additive used to control microbes.

Total HAA refers to HAA5

## Potential Health Effects and Corrective Actions (If Applicable)

Total Trihalomethanes (TTHMs): During the year our system had a TTHM result that was greater than the MCL. Since there is variability in sampling results, and this is not an acute contaminant, four quarterly sample results are used to determine compliance for this contaminant. TTHMs will continue to be monitored quarterly on our system into 2025.

### Other Substances - Tested in drinking water

Substance (Date, if sampled in previous years)	EPA's Ideal Goal (MCLG)	EPA's Limit (MCL)	Highest Average or Highest Single Test Result	Range of Detected Test Results	Violation	Typical Sources
<b>Fluoride</b>	4.0 ppm	4.0 ppm	0.67 ppm	0.61 - 0.67 ppm	NO	Erosion of natural deposits; Water additive to promote strong teeth.

## Potential Health Effects and Corrective Actions (If Applicable)

Fluoride: Fluoride is nature's cavity fighter, with small amounts present naturally in many drinking water sources. There is an overwhelming weight of credible, peer-reviewed, scientific evidence that fluoridation reduces tooth decay and cavities in children and adults, even when there is availability of fluoride from other sources, such as fluoride toothpaste and mouth rinses. Since studies show that optimal fluoride levels in drinking water benefit public health, municipal community water systems adjust the level of fluoride in the water to an optimal concentration between 0.5 to 0.9 parts per million (ppm) to protect your teeth. Fluoride levels below 2.0 ppm are not expected to increase the risk of a cosmetic condition known as enamel fluorosis.

## Monitoring Results - Unregulated Substances

### Unregulated Contaminants - Tested in drinking water

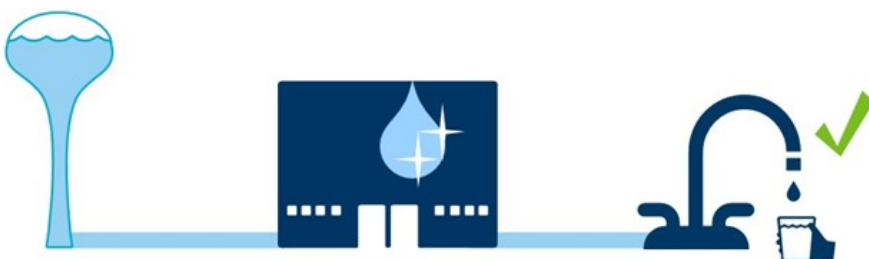
Contaminant	Comparison Value	Highest Average Result or Highest Single Test Result	Range of Detected Test Results
<b>Sodium* (2023)</b>	20 ppm	7.03 ppm	N/A
<b>Sulfate (2023)</b>	500 ppm	13.6 ppm	N/A

For more information on unregulated contaminants, please visit our website at: <https://www.ci.buffalo.mn.us/232/Drinking-Water-Reports>

## Some People Are More Vulnerable to Contaminants in Drinking Water

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. The developing fetus and therefore pregnant women may also be more vulnerable to contaminants in drinking water. These people or their caregivers should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control (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 at 1-800-426-4791.

## Help Protect Our Most Precious Resource - WATER



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