

2023 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.

Making safe drinking water

Your drinking water comes from the following groundwater sources: Savage purchases water from Burnsville and your system has eight wells ranging from 152 to 1,029 feet deep, that draw water from the Prairie Du Chien Group, Mt. Simon, Quaternary Buried Artesian and Tunnel City-Wonewoc aquifers.

Savage 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 Michael Klimers, Utilities Superintendent, at 952-224-3442 or mklimers@cityofsavage.com if you have questions about Savage'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**.

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Questions? We are happy to help.

If you have questions regarding the City of Savage drinking water or would like more information about opportunities for public participation in decisions that may affect the quality of water, give us a call at **952-224-3440**.



Savage monitoring results

This report contains our monitoring results from January 1 to December 31, 2023.

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 below 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 below 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 a.m. and 4:30 p.m., Monday through Friday.

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 below 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 a.m. and 4:30 p.m., Monday through Friday.

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 of Highest Single Test Result, because it occurred in the previous calendar year.

Definitions

AL (Action Level): 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.

N/A (Not applicable): Does not apply.

pCi/l (picocuries per liter): A measure of radioactivity.

ppt (parts per trillion): one part per trillion is like one drop in one trillion drops of water, or about one drop in an Olypmic 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 (μ g/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.

WATER QUALITY DATA TABLES - SAVAGE

Monitoring Results - Regulated Substances

Lead and copper - tested at customer taps

Contaminant (Date, if sampled in previous year)	EPA's Ideal Goal (MCLG)	EPA's Action Level	90% of Results Were Less Than	Number of Homes with High Levels	Violation	Typical Sources
Lead (7/19/21)	0 ppb	90% of homes less than 15 ppb	0.84 ppb	0 out of 34	NO	Corrosion of household plumbing.
Copper (7/19/21)	0 ppm	90% of homes less than 1.3 ppm	0.39 ppm	0 out of 34	NO	Corrosion of household plumbing.

Note: The City of Savage has been in compliance for lead for the last three years. The next required test will be in 2024.

Inorganic and organic contaminants - tested in drinking water

Contaminant (Date, if sampled in previous year)	EPA's Ideal Goal (MCLG)	EPA's Limit (MCL)	Highest Average or Highest Single Test Result	Range of Detected Test Results	Violation	Typical Sources
Nitrate (5/16/23)	10 ppm	10.4 ppm	0.45 ppm	0.00-0.45 ppm	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Barium (8/28/19)	2 ppm	2 ppm	0.21 ppm	N/A	NO	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposit.
Gross Alpha (WTP #2 - 6/29/23)	0 pCi/l	15.4 pCi/l	<3 pCi/l	0.0-16.0 pCi/l	NO	
(WTP #2 - 8/29/23)	0 pCi/l	15.4 pCi/l	5.0 pCi/l	0.0-16.0 pCi/l	NO	Erosion of natural deposits.
(WTP #3 - 2/21/23, 6/29/23, 8/23/23, 10/4/23)	0 pCi/l	15.4 pCi/l	7.4 pCi/l	0.0-16.0 pCi/l	NO	
Combined Radium 226/228 (WTP #2 - 6/29/23)	0 pCi/l	5.4 pCi/l	2.9 pCi/l	2.9-7.5 pCi/l	NO	
(WTP #2 - 8/29/23)	0 pCi/l	5.4 pCi/l	3.36 pCi/l	2.9-7.5 pCi/l	NO	Erosion of natural deposits.
(WTP #3 - 2/21/23, 6/29/23, 8/23/23, 10/4/23)	0 pCi/l	5.4 pCi/l	6.3 pCi/l	2.9-7.5 pCi/l	YES	

Combined Radium: Recent testing results show that the average level of combined radium was above the maximum contaminant level (MCL) of 5.4 pCi/L, putting this system in violation of the MCL. Testing will continue until the violation is resolved. This is not an emergency. You do not need an alternative source of water such as bottled water. However, if you have specific health concerns consult your doctor. Home water treatment units are available to reduce radium, which include water softening, reverse osmosis, and distillation. It is recommended that these home water treatment units be verified to ensure radium removal. The use of carbon filters is not recommended for removal of radium, as radium may accumulate in the filter over time. Your public water system is exploring methods to reduce the level of combined radium, which may include an alternative water source or water treatment. You will be informed when the public water system has reduced the level of radium and meets the standard. Please share this information with all other people who drink this water, especially wthose who may not have received this notice directly (for example, people in apartments, nursing homes, hospitals, schools, prisons, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

Combined Radium: Some people who drink water containing radium-226 or -228 in excess of the MCL over many years may have an increased risk of getting cancer.

Contaminants related to disinfection - tested in drinking water

Substance (Date, if sampled in previous year)	EPA's Ideal Goal (MCLG or MRDLG)	EPA's Limit (MCL or MRDL)	Highest Aver- age or Highest Single Test Result	Range of Detected Test Results	Violation	Typical Sources
Total Trihalomethanes (TTHMs) (2/6/23, 5/3/23, 8/1/23, 11/1/23)	N/A	80 ppb	36.3 ppb	22.10 - 36.30 ppb	NO	By-product of drinking water disinfection.
Total Haloacetic Acids (HAA) (2/6/23, 5/3/23, 8/1/23, 11/1/23)	N/A	60 ppb	8 ppb	5.60 - 8.00 ppb	NO	By-product of drinking water disinfection.
Total Chlorine (30 samples per month)	4.0 ppm	4.0 ppm	0.86 ppm	0.68 - 0.97 ppm	NO	Water additive used to control microbes.

Total HAA refers to HAA5

Other substances - tested in drinking water

Substance (Date, if sampled in previous year)	EPA's Ideal Goal (MCLG)	EPA's Limit (MCL)	Highest Average or Highest Single Test Result	Range of Detected Test Results	Violation	Typical Sources
Fluoride (2/14/23, 5/16/23, 8/30/23, 10/4/23)	4.0 ppm	4.0 ppm	0.80 ppm	0.68 - 0.90 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.

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**.



WATER QUALITY DATA TABLES - SAVAGE

Monitoring Results - Unregulated Substances

In addition to testing drinking water for contaminants regulated under the Safe Drinking Water Act, we sometimes also monitor for contaminants that are not regulated. Unregulated contaminants do not have legal limits for drinking water.

Detection alone of a regulated or unregulated contaminant should not cause concern. The meaning of a detection should be determined considering current health effects information. We are often still learning about the health effects, so this information can change over time.

The following table shows the unregulated contaminants we detected last year, as well as human-health based guidance values for comparison, where available. The comparison values are based only on potential health impacts and do not consider our ability to measure contaminants at very low concentrations or the cost and technology of prevention and/or treatment. They may be set at levels that are costly, challenging, or impossible for water systems to meet (for example, large-scale treatment technology may not exist for a given contaminant).

A person drinking water with a contaminant at or below the comparison value would be at little or no risk for harmful health effects. If the level of a contaminant is above the comparison value, people of a certain age or with special health conditions - like a fetus, infants, children, elderly, and people with impaired immunity - may need to take extra precautions. Because these contaminants are unregulated, EPA and MDH require no particular action based on detection of an unregulated contaminant. We are notifying you of the unregulated contaminants we have detected as a public education opportunity.

More information is available on MDH's A-Z List of Contaminants in Water (https://www.health.state.mn.us/communities/environment/water/contaminants/index.html) and Fourth Unregulated Contaminant Monitoring Rule (UCMR 4) (https://www.health.state.mn.us/communities/environment/water/com/ucmr4.html).

Unregulated contaminants - tested in drinking water

Contaminant	Comparison Value	Highest Average Result or High- est Single Test Result	Range of Detected Test Results
Lithium (10/4/23)	10 ppb	14.9 ppb	11.8 - 21.1 ppb

LEARN MORE ABOUT YOUR DRINKING WATER

Drinking water sources

Groundwater supplies 75 percent of Minnesota's drinking water and is found in aquifers beneath the surface of the land. Surface water supplies 25 percent of Minnesota's drinking water, and is the water in lakes, rivers, and streams above the surface of the land. Contaminants can get in drinking water sources from the natural environment and from people's daily activities. There are five main types of contaminants in drinking water sources.

- Microbial contaminants, such as viruses, bacteria, and parasites.
 Sources include sewage treatment plants, septic systems, agricultural livestock operations, pets, and wildlife.
- Inorganic contaminants include salts and metals from natural sources (e.g. rock and soil), oil and gas production, mining and farming operations, urban stormwater runoff, and wastewater discharges.
- Pesticides and herbicides are chemicals used to reduce or kill unwanted plants and pests. Sources include agriculture, urban stormwater runoff, and commercial and residential properties
- Organic chemical contaminants include synthetic and volatile organic compounds. Sources include industrial processes and petroleum production, gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants such as radium, thorium, and uranium isotopes come from natural sources (e.g. radon gas from soils and rock), mining operations, and oil and gas production.

The Minnesota Department of Health provides information about your drinking water source(s) in a source water assessment, including:

- How Savage is protecting your drinking water source(s);
- Nearby threats to your drinking water sources;
- How easily water and pollution can

move from the surface of the land into drinking water sources, based on natural geology and the way wells are constructed.

If you wish to obtain the entire source water assessment regarding your drinking water, please call **651-201-4700** during normal business hours. You can also view it online at **health.state.mn.us/communities/environment/water/swp/swa**.

Lead in drinking water

You may be in contact with lead through paint, water, dust, soil, food, hobbies, or your job. Coming in contact with lead can cause serious health problems for everyone. There is no safe level of lead. Babies, children under six years, and pregnant women are at the highest risk.

Lead is rarely in a drinking water source, but it can get in your drinking water as it passes through lead service lines and your household plumbing system. Savage is responsible for providing high quality drinking water, but it cannot control the plumbing materials used in private buildings.

Read below to learn how you can protect yourself from lead in drinking water.

- 1. Let the water run for 30-60 seconds before using it for drinking or cooking if the water has not been turned on in over six hours. If you have a lead service line, you may need to let the water run longer. A service line is the underground pipe that brings water from the main water pipe under the street to your home.
 - You can find out if you have a lead service line by contacting your public water system, or you can check by following the steps at: www.mprnews. org/story/2016/06/24/npr-find-leadpipes-in-your-home
- The only way to know if lead has been reduced by letting it run is to check with a test. If letting the water run does not reduce lead, consider other options to reduce your exposure.

- Use cold water for drinking, making food, and making baby formula. Hot water releases more lead from pipes than cold water.
- 3. Test your water. In most cases, letting the water run and using cold water for drinking and cooking should keep lead levels low in your drinking water. If you are still concerned about lead, arrange with a laboratory to test your tap water. Testing your water is important if young children or pregnant women drink your tap water.
 - Contact a Minnesota Department of Health accredited laboratory to get a sample container and instructions on how to submit a sample:

Environmental Laboratory Accreditation Program (https://eldo.web.health.state.mn.us/public/accreditedlabs/labsearch.seam)

The Minnesota Department of Health can help you understand your test results.

- 4. **Treat your water** if a test shows your water has high levels of lead after you let the water run.
 - Read about water treatment units:

Point-of-Use Water Treatment Units for Lead Reduction (https://www.health.state. mn.us/communities/environment/water/ factsheet/poulead.html)

Learn more:

- Visit Lead in Drinking Water (https:// www.health.state.mn.us/communities/ environment/water/contaminants/lead. html)
- Visit Basic Information about Lead in Drinking Water (http://www.epa.gov/ safewater/lead)
- Call the EPA Safe Drinking Water Hotline at 1-800-426-4791. To learn about how to reduce your contact with lead from sources other than your drinking water, visit Common Sources (https://www. health.state.mn.us/communities/ environment/lead/fs/common.html).

HELP PROTECT THE MOST PRECIOUS RESOURCE - WATER

The value of water

Drinking water is a precious resource, yet we often take it for granted.

Throughout history, civilizations have risen and fallen based on access to a plentiful, safe water supply. That's still the case today. Water is key to healthy people and healthy communities.

Water is also vital to our economy. We need water for manufacturing, agriculture, energy production, and more. One-fifth of the U.S. economy would come to a stop without a reliable and clean source of water.

Systems are in place to provide you with safe drinking water. The state of Minnesota and local water systems work to protect drinking water sources. For example, we might work to seal an unused well to prevent contamination of the groundwater. We treat water to remove harmful contaminants. And we do extensive testing to ensure the safety of drinking water.

If we detect a problem, we take corrective action and notify the public. Water from a public water system like yours is tested more thoroughly and regulated more closely than water from any other source, including bottled water.

Tap Water Less than 1¢ Milk \$3.49 Gasoline \$3.43 **Bottled Water** \$2.09 AT ABOUT **Orange Juice** A PENNY \$5.29 PER GALLON, WATER IS A **REAL VALUE** Starbucks® Coffee \$20 2023 price est.

You Can Help Prevent Pollution

Conservation is essential, even in the land of 10,000 lakes. For example, in parts of the metropolitan area, groundwater is being used faster than it can be replaced. Some agricultural regions in Minnesota are vulnerable to drought, which can affect crop yields and municipal water supplies.

We must use our water wisely. Below are some tips to help you and your family conserve - and save money in the process.

- Fix running toilets—they can waste hundreds of gallons of water.
- Turn off the tap while shaving or brushing your teeth.
- Shower instead of bathe. Bathing uses more water than showering, on average.
- Only run full loads of laundry, and set the washing machine to the correct water level.
- Only run the dishwasher when it's full.
- Use water-efficient appliances (look for the WaterSense label).
- Use water-friendly landscaping, such as native plants.
- When you do water your yard, water slowly, deeply, and less frequently. Water early in the morning and close to the ground.
- Learn more
 - Minnesota Pollution Control Agency's Conserving Water webpage (https://www.pca.state.mn.us/living-green/ conserving-water)
 - U.S. Environmental Protection Agency's WaterSense webpage (https://www.epa.gov/watersense)

You can prevent pollution

Many of our daily activities contribute to the pollution of Minnesota's surface water and groundwater. You can help protect these drinking water sources by taking the following actions:

- Lawn and property:
 - Limit use of herbicides, pesticides, and fertilizers on your property.
 - Keep soil in place with plants, grass, or rocks.
 - Cover temporary piles of dirt with a tarp or burlap sack.
 - Keep leaves and grass off of streets and sidewalks.
 - Maintain any septic systems, private wells, and storage tanks to prevent leaks. Seal any unused wells.
- Out-of-date medications: Never flush unwanted or out-of-date medications down the toilet or sink. Always take them to a waste disposal or prescription medication drop-off site. More information is available at Managing unwanted medications (www.pca.state.mn.us/living-green/ managing-unwanted-medications).
- Hazardous materials: Safety store hazardous materials such as paint, batteries, herbicides, pesticides, and pool chemicals. Dispose of them at a proper waste disposal facility or drop-off event. Do not dump down storm drains, sink or onto your land. Learn more at: Keep hazardous waste out of the garbage (http://www.pca.state.mn.us/featured/ keep-hazardous-waste-out-garbage).
- Pet waste: Pick up after your pet and put waste in the trash.
- Trash: Seal trash bags and keep litter out of the street.
- Winter ice removal: Chemicals used to break up the ice are called deicers or anti-icers. They can be harmful to the environment, corrosive to driveways and sidewalks and harmful to plants, pets and humans. Always shovel first, and then only apply deicers/anti-icers lightly if needed. Learn more at 10 smart salting tips to protect Minnesota waters (https://www.pca.state.mn.us/featured/10-smart-salting-tips-protect-minnesota-waters).
- Keep an eye out for car and motor fluids: Seal or repair any fluid leaks that could run off onto streets and into storm drains. Take used motor oil or other fluids to a neighborhood drop-off site.
- Be a water advocate: Spread the word; get involved. There are many groups and individuals working to protect water across Minnesota.

Reduce backflow at cross connections

Bacteria and chemicals can enter the drinking water supply from polluted water sources in a process called backflow. Backflow occurs at connection points between drinking water and non-drinking water supplies (cross connections) due to water pressure differences.

For example, if a person sprays an herbicide with a garden hose, the herbicide could enter the home's plumbing and then enter the drinking water supply. This could happen if the water pressure in the hose is greater than the water pressure in the home's pipes.

Property owners can help prevent backflow. Pay attention to cross connections, such as garden hoses.

The Minnesota Department of Health and American Water Works Association recommend the following:

- Do not submerge hoses in buckets, pools, tubs, or sinks.
- Keep the end of hoses clear of possible contaminants.
- Do not use spray attachments without a backflow prevention device. Attach these devices to threaded faucets. Such devices are inexpensive and available at hardware stores.
- Use a licensed plumber to install backflow prevention devices.
- Maintain air gaps between hose outlets and liquids. An air gap is a vertical space between the water outlet and the flood level of a fixture (e.g. the space between a wall-mounted faucet and the sink rim). It must be at least twice the diameter of the water supply outlet, and at least one inch.
- Commercial property owners should develop a plan for flushing or cleaning water systems to minimize the risk of drawing contaminants into uncontaminated areas.

HOME WATER TREATMENT

Most Minnesotans, whether they drink from a public water supply or a private well, have drinking water that does not need treatment for health protection. Water treatment units are best for improving the physical qualities of water—the taste, color, or odor. No single treatment process can remove all substances in water. If you decide to install a home water treatment unit, choose a unit certified and labeled to reduce or remove the substance of concern. If there is more than one substance you want to remove from your water, you may need to combine several treatment processes into one system.

Even well-designed treatments systems can fail. You should continue to test your drinking water after you install a treatment unit. All home water treatment units need regular maintenance to work correctly. Regular maintenance may include changing filters, disinfecting the unit, or cleaning scale buildup. Always install, clean, and maintain a treatment unit according to the manufacturer's recommendations.

Learn more at (https://www.health.state.mn.us/communities/environment/water/factsheet/hometreatment.html).

Beware of water treatment scams

False claims, deceptive sales pitches, or scare tactics have been used by some water treatment companies. Every person has a right to decide what is best for themselves and theirfamily, and you may choose to install additional water treatment to further lower the levels of contaminants of emerging concern, chlorine, and other chemicals in your water. However, you should be cautious about purchasing a water treatment system. If you are considering the purchase of a home water treatment system, please read the Minnesota Department of Health's recommendations online at Warning: Beware of Water Treatment Scams (https://www.health.state.mn.us/communities/environment/water/factsheet/beware.html).



Additional resources

- EPA Safe Drinking Water Hotline 1-800-426-4791
- EPA Ground Water and Drinking Water website water.epa.gov/safewater/lead
- MDH websitehealth.state.mn.us
- City of Savage website cityofsavage.com

The pros and cons of home water softening

The water hardness in Savage is 19-21 grains per gallon (gpg). This is moderately hard water.

When considering whether to use a water softener, contact your public water system to find out if you have hard water. Many systems treat for hardness, making water softeners unnecessary. Water softeners are a water treatment device. They remove water hardness (dissolved calcium and magnesium). Water softeners must be installed and maintained properly to be safe and effective. Learn more at Home Water Softening (https://www.health.state.mn.us/communities/environment/water/factsheet/softening.html).

The benefits of soft water include:

- Increased efficiency for soaps and detergents.
- Reduction in mineral staining on fixtures and in pipes.
- A potential increase in the lifespan of water heaters.

The drawbacks of soft water include:

- Operation and maintenance costs.
- More sodium. People on low-sodium diets should consult a doctor if they plan to regularly consume softened water.
- The production of salt brine as a byproduct. This can have negative effects at wastewater treatment plants and on ecosystems. Reduce the amount of salt brine used or install a salt-free system.

Water systems have ongoing infrastructure, operations and maintenance costs in supplying safe drinking water, and many are implementing additional efforts to help insure health equity and manageable water bills with these recommendations:

- Turn the faucet off while brushing teeth.
- Shower instead of bathing to reduce water use.
- Fix running toilets by replacing flapper valves.
- Run full loads of laundry and use a minimal water use setting. In addition, our water system partners with others to help consumers with limited resources make payments to their water bills.

Contact us to learn more.

WATER QUALITY DATA TABLES - BURNSVILLE

The tables on page 3 and 4 relate only to water drawn from wells in Savage. Homes and businesses in Savage also receive water via a pipeline that delivers groundwater collected from a quarry and treated by the City of Burnsville. This water accounts for 71.5% of all water distributed in Savage.

The tables on this page relate to tests conducted on the water distributed to Savage and water distributed by the City of Burnsville in 2023. In addition to the water from the quarry, the City of Burnsville gets its water from 17 wells that draw from the Jordan, Mt. Simon, Prairie du Chien Group, and Tunnel City - Mt. Simon aquifers.

Monitoring Results - Regulated Substances

Lead and copper - tested at customer taps

Contaminant (Date, if sampled in previous year)	EPA's Action Level	EPA's Ideal Goal (MCLG)	90% of Results Were Less Than	Number of Homes with High Levels	Violation	Typical Sources
Copper (8/11/21)	90% of homes less than 1.3 ppm	0 ppm	0.47 ppm	0 out of 30	NO	Corrosion of household plumbing.
Lead (8/11/21)	90% of homes less than 15 ppb	0 ppb	2.0 ppb	0 out of 30	NO	Corrosion of household plumbing.

Inorganic and organic contaminants - tested in drinking water

Contaminant (Date, if sampled in previous year)	EPA's Ideal Goal (MCLG)	EPA's Limit (MCL)	Highest Average or Highest Single Test Result	Range of Detected Test Results	Violation	Typical Sources
Endothall (2021)	0.1 ppm	0.1 ppm	0.01 ppm	N/A	NO	Runoff from herbicide use.
Nitrate	10 ppm	10.4 ppm	0.27 ppm	N/A	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Barium (2/18/21)	2 ppm	2 ppm	0.21 ppm	N/A	NO	Discharge of drilling waste; Discharge from metal refineries; Erosion of natural deposit
Gross Alpha	0 pCi/l	15.4 pCi/l	8.8 pCi/l	4.1 - 15.0 pCi/l	NO	Erosion of natural deposits.
Combined Radium	0 pCi/l	5.4 pCi/l	3.4 pCi/l	2.6 - 4.6 pCi/l	NO	Erosion of natural deposits.

Contaminants related to disinfection - tested in drinking water

Substance (Date, if sampled in previous year)	EPA's Ideal Goal (MCLG or MRDLG)	EPA's Limit (MCL or MRDL)	Highest Average or Highest Single Test Result	Range of Detected Test Results	Violation	Typical Sources
Total Trihalomethanes (TTHMs)	N/A	80 ppb	57.6 ppb	9.90 - 145.80 ppb	NO	By-product of drinking water disinfection.
Total Haloacetic Acids (HAA)	N/A	60 ppb	6.8 ppb	2.50 - 9.80 ppb	NO	By-product of drinking water disinfection.
Total Chlorine	4.0 ppm	4.0 ppm	0.91 ppm	0.81 - 1.09 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 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 2024.

Total Trihalomethanes (TTHMs): Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Other substances - tested in drinking water

Substance (Date, if sampled in previous year)	EPA's Ideal Goal (MCLG)	EPA's Limit (MCL)	Highest Average or Highest Single Test Result	Range of Detected Test Results	Violation	Typical Sources
Fluoride	4.0 ppm	4.0 ppm	0.77 ppm	0.67 - 0.84 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 amouts present naturally in many dirinking 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 fluoriosis.

Treatment indicator - tested during treatment

Substance	Removal Required	Lowest Monthly Percentage of Results Compliance	Highest Test Result	Violation	Typical Sources
Turbidity	Treatment Technique	N/A	N/A	NO	Soil runoff.

Disinfection Byproduct Indicator - Tested in source water and in drinking water

Substance	Removal Required	Range of Percent Removal Achieved	Average of Percent Removal Achieved	Violation	Typical Sources
Total Organic Carbon	Variable	N/A	N/A	N/A System provides direct filtration	N/A

The percentage of Total Organic Carbon (TOC) removal was measured each month. The system met all TOC removal requirements, unless there is a "YES" in the Violation column.

Monitoring Results - Unregulated Substances

Unregulated contaminants - tested in drinking water

Contaminant	Comparison value	Highest Average or Highest Single Test Result	Range of Detected Test Results
perfluorobutanoic acid (PFBA)	7000 ppt	25.5 ppt	N/A

2023 Non Compliance Testing

Substance	Result
Iron	.0009 mg/l
Total Hardness	21-28 Grains per gallon
PH	7.1-7.6