

# ANNUAL WATER QUALITY REPORT

Reporting Year 2025



*Presented By*  
**Council Bluffs  
Water Works**

PWS ID#: 7820080

## Our Commitment

We are pleased to present to you this year's annual water quality report. This report is a snapshot of last year's water quality covering all testing performed between January 1 and December 31, 2025. Included are details about your sources of water, what it contains, and how it compares to standards set by regulatory agencies. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water and providing you with this information because informed customers are our best allies.

## Where Does My Water Come From?

The primary source for Council Bluffs Water Works is the Missouri River and the Missouri River alluvium.

## Source Water Assessment

The City of Council Bluffs obtains its water from the Missouri River and the Missouri River alluvium. Reservoirs and streams are highly susceptible to contamination because contaminants can move through them quickly. Council Bluffs's water supply is susceptible to contaminant releases from landfills and livestock confinements. A portion of Council Bluffs's water supply is obtained from an alluvial aquifer. The alluvial aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifer and overlying materials allow contaminants to move through the aquifer quickly. The City of Council Bluffs's wells are most susceptible to activities such as dry cleaners, gas stations, industrial sites, and municipal wastewater discharges. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources and is available from the Council Bluffs Water Works.

## Community Participation

We want our valued customers to be informed about their water utility. The Board of Water Works Trustees conducts business during its regularly scheduled meetings. The meetings are normally held on the third Tuesday of the month at 4:30 p.m. at the Water Works office, 2000 North 25th Street.

## Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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. U.S. Environmental Protection Agency (U.S. EPA)/Centers for Disease Control and Prevention (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 (800) 426-4791 or on US. EPA's website [epa.gov/safewater](http://epa.gov/safewater).

## Why We Test So Often

Drinking water is one of the most closely monitored resources in the United States. Water systems regularly test for bacteria, disinfectants, metals, organic chemicals, radioactive substances, and many other contaminants. Some tests are performed daily, while others are conducted weekly, monthly, quarterly, or annually, depending on regulatory requirements and system size. Microbiological testing for bacteria such as coliforms ensures that disinfection is working properly. Turbidity monitoring confirms effective filtration. Chemical testing verifies that treatment processes remain optimized. All certified laboratories must meet strict quality assurance requirements to ensure accurate results. When results approach regulatory limits, corrective actions are taken immediately.



## Microplastics in Drinking Water

Microplastics are tiny plastic particles smaller than a grain of rice that are now being detected in oceans, rivers, soils, and even the air. Scientists have also identified microplastics in drinking water supplies worldwide. These particles come from the breakdown of larger plastic products, synthetic clothing fibers, tire wear, and many everyday consumer items. Because plastics degrade slowly, microplastics are becoming increasingly widespread in the environment.

Modern water treatment processes, including filtration and sedimentation, remove a large portion of microplastics from source water. Advanced treatments, such as granular-activated carbon and membrane filtration, can further reduce microplastic levels.

Consumers interested in minimizing microplastic exposure can use certified drinking water filters, reduce single-use plastic consumption, and support responsible plastic recycling and waste reduction efforts.

**QUESTIONS?** For more information about this report, or for any questions relating to your drinking water, please call Tim Parker, Purification Manager, at (712) 328-1006, ext. 1020.

## Lead in Home Plumbing

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. Council Bluffs Water Works is responsible for providing high-quality drinking water and removing lead pipes but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, or doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute-accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have it tested, contact Tim Parker at (712) 328-1006, ext. 1020. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at [epa.gov/safewater/lead](http://epa.gov/safewater/lead).

To address lead in drinking water, public water systems were required to develop and maintain an inventory of service line materials by October 16, 2024. Developing an inventory and identifying the location of lead service lines (LSL) is the first step for beginning LSL replacement and protecting public health. The lead service inventory may be found at [cbwaterworks.com/wp-content/uploads/2024/10/Lead-Service-Line-List.pdf](http://cbwaterworks.com/wp-content/uploads/2024/10/Lead-Service-Line-List.pdf). Please contact us if you would like more information about the inventory or any lead sampling that has been done.

## Safeguard Your Drinking Water

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides – they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- If you have your own septic system, properly maintain it to reduce leaching to water sources, or consider connecting to a public water system.
- Dispose of chemicals properly; take used motor oil to a recycling center.
- Volunteer in your community. Find a watershed or wellhead protection organization in your community and volunteer to help. If there are no active groups, consider starting one. Use U.S. EPA's Adopt Your Watershed to locate groups in your community.
- Organize a storm drain stenciling project with others in your neighborhood. Stencil a message next to the street drain reminding people "Dump No Waste – Drains to River" or "Protect Your Water." Produce and distribute a flyer for households to remind residents that storm drains dump directly into your local water body.

## Substances That Could Be in Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and 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 occur naturally in the soil or groundwater or may 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, urban stormwater runoff, and residential uses.

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.

Radioactive Contaminants, which can occur naturally or be the result of oil and gas production and mining activities.

To ensure that tap water is safe to drink, the U.S. EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

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 mean that water poses a health risk. More information about contaminants and potential health effects can be obtained by contacting the U.S. EPA by calling the Safe Drinking Water Hotline at (800) 426-4791 or visiting [epa.gov/safewater](http://epa.gov/safewater).

## Hard vs. Soft Water

"Hard" water contains higher levels of naturally occurring minerals, primarily calcium and magnesium. These minerals are not harmful to human health and can even contribute beneficial nutrients. However, hard water can cause scale buildup in pipes, appliances, and fixtures. "Soft" water has lower mineral content and allows soap to lather more easily. It also helps extend the life of water heaters, washing machines, and plumbing fixtures. Hardness levels vary widely depending on local geology and groundwater conditions. Some households choose to install water softeners to reduce scaling and improve appliance efficiency. It is important to note that water hardness is a quality issue, not a safety concern. Both hard and soft water supplied by public water systems meet all health-based drinking water standards.

## Test Results

Our water is monitored for many different kinds of substances on a very strict sampling schedule, and the water we deliver must meet specific health standards. Here, we only show those substances that were detected in our water (a complete list of all our analytical results is available upon request). Remember that detecting a substance does not mean the water is unsafe to drink; our goal is to keep all detects below their respective maximum allowed levels.

The state recommends monitoring for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data is included, along with the year in which the sample was taken.

We participated in the fifth stage of the U.S. EPA's Unregulated Contaminant Monitoring Rule (UCMR5) program by performing additional tests on our drinking water. UCMR5 sampling benefits the environment and public health by providing the U.S. EPA with data on the occurrence of contaminants suspected to be in drinking water to determine if it needs to introduce new regulatory standards to improve drinking water quality. Unregulated contaminant monitoring data is available to the public, so please feel free to contact us if you are interested in obtaining that information. If you would like more information on the U.S. EPA's Unregulated Contaminant Monitoring Rule, please call the Safe Drinking Water Hotline at (800) 426-4791.

REGULATED SUBSTANCES									
				Council Bluffs Water Works TP01		Council Bluffs Water Works TP02			
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]	MCLG [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
<b>Barium</b> (ppm)	2024	2	2	NA	NA	0.05	NA	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
<b>Chlorine</b> (ppm)	2025	[4]	[4]	2.3	2.1–2.4	NA	NA	No	Water additive used to control microbes
<b>Dalapon</b> (ppb)	2024	200	200	0.20	NA	NA	NA	No	Runoff from herbicide used on rights-of-way
<b>Fluoride</b> (ppm)	2025	4	4	0.99	0.51–0.99	1.09	0.51–1.09	No	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories
<b>Haloacetic Acids [HAA5]</b> (ppb)	2025	60	NA	16.0	9.0–32.0	NA	NA	No	By-product of drinking water disinfection
<b>Nitrate</b> (ppm)	2025	10	10	2.3	0.56–2.3	NA	NA	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
<b>Sodium</b> (ppm)	2025	NS	NA	70	NA	33 <sup>1</sup>	NA <sup>1</sup>	No	Erosion of natural deposits; Added to water during treatment process
<b>Total Organic Carbon [TOC]</b> (removal ratio)	2025	TT <sup>2</sup>	NA	2.9	1.6–2.9	NA	NA	No	Naturally present in the environment
<b>Total Trihalomethanes [TTHMs]</b> (ppb)	2025	80 <sup>3</sup>	NA	53.0	29.0–94	NA	NA	No	By-product of drinking water disinfection
<b>Turbidity</b> <sup>4</sup> (NTU)	2025	TT	NA	0.10	NA	NA	NA	No	Soil runoff
<b>Turbidity</b> (lowest monthly percent of samples meeting limit)	2025	TT = 95% of samples meet the limit	NA	100	NA	NA	NA	No	Soil runoff



Tap water samples were collected for lead and copper analyses from sample sites throughout the community<sup>5</sup>

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AL	MCLG	AMOUNT DETECTED (90TH %ILE)	RANGE LOW-HIGH	SITES ABOVE AL/ TOTAL SITES	VIOLATION	TYPICAL SOURCE
<b>Copper</b> (ppm)	2023	1.3	1.3	0.05	ND–0.08	0/30	No	Corrosion of household plumbing systems; Erosion of natural deposits
<b>Lead</b> (ppb)	2023	15	0	2	ND–20	1/30	No	Corrosion of household plumbing systems; Erosion of natural deposits

### UNREGULATED SUBSTANCES

		Council Bluffs Water Works TP01			Council Bluffs Water Works TP02			
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	TYPICAL SOURCE		
<b>Lithium</b> (ppb)	2023	150	130–150	56	44–56	NA		

- <sup>1</sup>Sampled in 2024.
- <sup>2</sup>The value reported under Amount Detected for TOC is the lowest ratio of percentage of TOC actually removed to the percentage of TOC required to be removed. A value of greater than 1 indicates that the water system is in compliance with TOC removal requirements. A value of less than 1 indicates a violation of the TOC removal requirements.
- <sup>3</sup>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.
- <sup>4</sup>Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of the effectiveness of the filtration system.
- <sup>5</sup>Lead tap sampling data can be found in the Iowa Drinking Water Data Portal: [programs.iowadnr.gov/iowadrinkingwater](https://programs.iowadnr.gov/iowadrinkingwater).

## Definitions

**90th %ile:** The levels reported for lead and copper represent the 90th percentile of the total number of sites tested. The 90th percentile is equal to or greater than 90% of our lead and copper detections.

**AL (Action Level):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

**Herbicide:** Any chemical(s) used to control undesirable vegetation.

**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.

**NA:** Not applicable.

**ND (Not detected):** Indicates that the substance was not found by laboratory analysis.

**NS:** No standard.

**NTU (Nephelometric Turbidity Units):** Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**Pesticide:** Generally, any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest.

**ppb (parts per billion):** One part substance per billion parts water (or micrograms per liter).

**ppm (parts per million):** One part substance per million parts water (or milligrams per liter).

**Removal ratio:** A ratio between the percentage of a substance actually removed to the percentage of the substance required to be removed.

**TT (Treatment Technique):** A required process intended to reduce the level of a contaminant in drinking water.

