



Annual Drinking Water Quality Report



North Star Zoot Water MT0004284

Annual Water Quality Report for the period of January 1 to December 31, 2023

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

For more information regarding this report please contact Christine Maday at 406-595-3113.

Public Participation Opportunities: We have regular monthly meetings, usually on the third Tuesday of each month at 6:30 P.M. Please visit the District's website at www.fcwsd.org for more information on future meetings.

Sources of Drinking 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.

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's Safe Drinking Water Hotline at (800) 426-4791.

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, 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 be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the number of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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 healthcare 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).

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. We are responsible for providing high-quality drinking water, but we 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 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 are available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Variance and Exemptions

Our water system was granted a waiver for asbestos testing because there are no asbestos concrete pipes in the system.

Source Water Information for North Star Zoot Water

which is classified as a *Ground Water* system

The source water assessment report for your water system provides additional information on your source water's susceptibility to contamination. To access this report please go to:

<https://deq.mt.gov/water/Programs/dw-sourcewater>

On the webpage look under "4. Make Results of the Delineation and Assessment Available to the Public" and then click on the grey box called "Review Source Water Assessment Reports".

North Star Zoot Water utilizes the listed water sources below:

Water Source Name	Water Source Type
ZOOT WELL 3 GWIC 237945	Well
ZOOT WELL 1 GWIC 193117	Well
NORTH STAR WELL 2 GWIC 237307	Well
NORTH STAR WELL 3 GWIC 223292	Well
NORTH STAR WELL 1 GWIC 232362	Well
ZOOT WELL 2 GWIC 193116	Well

Water Quality Test Results Definitions

Definitions: The following tables contain scientific terms and measures, some of which may require explanation.

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

Avg: Regulatory compliance with some MCLs is based on running an annual average of monthly samples.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 assessment is 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.

Maximum Contaminant Level or MCL: The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal or 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 residual disinfectant level or MRDL: The highest level of disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for the control of microbial contaminants.

Maximum residual disinfectant level goal or 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.

N/A: Not applicable.

ND: Not detectable at testing limit.

Nephelometric Turbidity Unit (NTU) – Measure of the clarity or cloudiness of water. Turbidity more than 5 NTU is just noticeable to the typical person.

Picocuries per liter (pCi/L) – Measure of the radioactivity in water.

ppb: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

Secondary Maximum Contaminant Level (SMCL): SMCLs are established as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

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

The State of Montana DEQ requires 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, or the system is not considered vulnerable to this type of contamination. Therefore, some of our data, though representative, may be more than one-year-old.

Lead and Copper

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	06-30-2021	1.3	1.3	0.442	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	06-30-2021	0	15	3	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Regulated Contaminants

Contaminant Group: Disinfectants and Disinfection By-Products

Regulated Contaminants	Collection Year	Highest Level Detected	Range of Levels	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	2023	0.40	.29 - .4	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2023	4	4 - 4	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	17	17 - 17	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

Contaminant Group: Inorganic Contaminants

Regulated Contaminants	Collection Year	Highest Level Detected	Range of Levels	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2021	0.17	.08 - .17	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2022	0.4760	.476 - .476	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2023	3	.43 - 2.5	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Contaminant Group: Radioactive Contaminants

Regulated Contaminants	Collection Year	Highest Level Detected	Range of Levels	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2021	1.50	1 - 1.5	0	5	pCi/L	N	Erosion of natural deposits.
Uranium	2021	1.40	.8 - 1.4	0	30	ppb	N	Erosion of natural deposits.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

**Asbestos Monitoring Waiver for
NORTH STAR ZOOT WATER**

Our water system has been granted a waiver for asbestos sampling. As our customers, you have a right to know why we are not sampling for asbestos.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of that the drinking water has or has not met health standards. We will not conduct monitoring for asbestos because we have been granted a waiver by DEQ. This waiver is based on our certification that there is no asbestos concrete pipe in the distribution system.

For more information, please contact Amy Ellingson, 495 Quail Run Road, Bozeman, MT 59718

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 NORTH STAR ZOOT.
PWSID: MT0004284

Date and Method Distributed: June 1, 2021 via CCR, June 16th, 2022 via CCR,
June 1, 2023 via CCR, May 6, 2024 via CCR

Date signed copy sent to DEQ/PWS: Approved by DEQ March 3, 2021
Notice submitted to DEQ June 1, 2021

monitor period
2020-2028