

FLATHEAD COUNTY

WATER AND SEWER DISTRICT #1 - EVERGREEN

Montana Public Water Supply ID number 01744

2023 Water Quality Report

In a continuing effort to keep you informed about the quality of water and services we provide to you each day, we're once again pleased to provide you with our Annual Water Quality Report. This report is a snapshot of the quality of water we provided you last year. It includes details regarding the source of your water, what your water contains and how it compares to EPA and the State of Montana standards.

Our drinking water comes from 11 wells. They range in depth from 100 to 450 feet. Seven wells are located in the lower zone and four wells are located in the upper zone. The lower zone wells pump into, the two storage tanks, 1.6 million tank, and a newly renovated 1.0 million gallon tank. The new tanks provide pressure and serve the lower zone. The lower zone also has a booster pump station which allows water from the lower zone wells and storage tank to be used in upper zone during times of high demand. All of our wells and booster station have backup power generators. We have 3,641 service connections and added 58 new connections last year.

We want you, our valued customers, to be informed about your water utility. If you want to learn more, please attend any of our regularly scheduled meetings held on the third Wednesday of each month at 7:00 a.m. at the District office at 130 Nicholson Drive.

We want you to be informed about your water system. If you want to learn more, please contact Mark James at (406) 257-5861. Mark is our lead certified operator, who has 24 years of experience. He attends periodic training sessions to meet continuing education requirements. The most recent training course he attended was in October of last year at the fall MTDEQ water school.

DID YOU KNOW? The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, and wells. As water travels over the surface of land or through the ground, it dissolves naturally occurring minerals and in some cases radioactive elements. Water can also pick up substances resulting from the presence of animals or from human activity.

- 1) Microbial contaminants such as viruses and bacteria which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- 2) Inorganic contaminants, such as salts and metals which can be naturally occurring or result from urban storm water runoff, industrial or domestic waste water discharges, oil and gas production, mining and farming.
- 3) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- 4) Volatile organic chemicals, which are byproducts of industrial processes, petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- 5) 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, the EPA prescribes regulations which limit the amount 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. We routinely monitor for constituents in your drinking water according to Federal and State laws. We take all of our water samples to Montana Environmental Laboratory in Kalispell (406-755-2131). They are a private laboratory that is certified by the State of Montana and the EPA to analyze drinking water. Our sampling frequency complies with EPA and state drinking water regulations. The following tests were performed to identify possible contaminants in our system during the period of January 1 to December 31, 2023:

- 96 coliform bacteria tests.
- One nitrate plus nitrite test on each of our four water sources – results were within EPA guidelines.

The following table lists the contaminants detected during recent testing. Some of our data in the table is more than a year old, since certain chemical contaminants are monitored less than once a year.

Regulated Contaminants

CONTAMINANT	VIOLATION Y/N	SAMPLE DATE	HIGHEST LEVEL DETECTED	UNIT MEASUREMENT	MCLG	MCL	LIKELY SOURCE OF CONTAMINATION
Total Coliform Bacteria	N	1-3-23 11-6-23	One Positive Sample in One Month	Positive Sample	0	0	Naturally occurring in the environment
Alpha Emitters (Adjusted) EP503	N	7-12-18	1.8 +/-1.7	pCi/L	0	15	Erosion of natural deposits
Barium EP502 EP503 EP504 EP505	N	7-14-21 7-14-21 7-14-21 7-14-21	0.17 0.10 0.09 0.18	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Copper	N	7-8-21	90th % is 0.13	ppm	1.3	AL= 1.3	Corrosion of Household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Fluoride EP502 EP503 EP504 EP505	N	7-14-21 7-14-21 7-14-21 7-14-21	0.10 0.05 0.09 0.10	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate + Nitrite EP502 EP503 EP504 EP505	N	7-10-23 7-10-23 7-10-23 7-10-23	0.22 0.31 0.22 0.22	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Lead	N	7-8-21	90th % is 1	ppb	0	AL= 15	Corrosion of Household plumbing; Erosion of natural deposits
Radium 226 EP502	N	7-14-21	0.4 +/- 0.3	pCi/L	0	5	Natural deposits
Radium 228 EP503	N	7-12-18	1.8 +/- 1.5	pCi/L	0	5	Natural deposits
Uranium EP502 EP504 EP505	N	7-12-18 7-12-18 7-12-18	1 1 1	ppb	0	30	Erosion of natural deposits

DEFINITIONS:

MCL - Maximum Contaminant Level - The “Maximum Allowed” is 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 “Goal” is 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.

PPM - Parts per million or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

PPB - Parts per billion or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

AL - Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Pci/L - Pico Curies per Liter - a very small unit of measurement of radioactivity.

EP - Entry Point - The point at which our water enters the distribution system.

What does this table tell us?

As you can see our system had no MCL violations. MCL’s are set at very stringent levels. To understand the possible health effects of exceeding the MCL, a person would have to drink two liters of water every day at the MCL for a lifetime to have a one in a million chance of having any adverse health effects. Although we have learned through our monitoring and testing that some constituents have been detected, the EPA has determined that your water IS SAFE at these levels.

Our testing did uncover the possible presence of coliform bacteria during January and November of last year. Although coliform bacteria are usually harmless, their presence in water is an indication that other harmful bacteria may be present. When coliform bacteria are found, special follow up tests are conducted to determine if harmful bacteria are present. In our case all repeat samples were coliform free.

All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or man-made. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials. All 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 the 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 or online at www.epa.gov/safewater.

Lead in drinking water comes primarily from materials and components of the service lines and home plumbing systems. It is possible that lead levels at your home may be higher than other homes in the community as a result of materials used in your home’s plumbing. Our water system is responsible for providing high quality drinking water, but we cannot control the variety of materials used in private home plumbing systems. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. If you are concerned about elevated lead levels in your home’s water, you may wish to have your water tested by a certified laboratory like the one we send our samples to (Montana Environmental Laboratory, 406-755-2131). When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap until the water temperature has stabilized (usually for 30 seconds to 2 minutes) before you use the water for drinking or cooking. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure to lead is available from the Safe Drinking Water Hotline 1-800-426-4791, or online at www.epa.gov/safewater/lead.

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 microbiological contaminants are available from the Safe Drinking Water Hotline, or online at www.epa.gov/safewater.

In February of 2003, the Montana Department of Environmental Quality conducted a source water assessment of our system. This report provides additional information on the potential vulnerability of our wells to contamination. The full report is available for review online at: <https://deq.mt.gov/water/programs/dw#accordion1-collapse2>. The report can be summarized in the table on the following page.

Our water system is committed to providing our customers with safe, pure water and we are pleased that our water meets or exceeds all established state and federal standards. Thank you for reviewing this report.

Prepared by Montana Environmental Laboratory, LLC 3/24

Significant Potential Contaminant Sources

Water Source	Contaminant Source	Contaminant	Hazard	Hazard Rating	Barriers	Susceptibility	Management
All Sources	Septic tanks/sewer lines	Pathogens	Leaks and leaching of contaminants into the groundwater	Moderate for shop and office wells Low for all others	Thick unsaturated zone and deep intake	Moderate for shop and office wells Low for all others	Groundwater monitoring programs, Septic system inspection program Wastewater collection system inspection and repair program Install disinfection facilities
All Sources	Septic tanks/sewer lines	Nitrates	Leaks and leaching of nitrates into the groundwater	Moderate for shop and office wells Low for all others	Thick unsaturated zone and deep intake	Moderate for shop and office wells Low for all others	Groundwater monitoring programs, Septic system inspection program, Wastewater collection system inspection and repair program
Shop Well #4	Vehicles and gasoline powered equipment	Gasoline and lubricants	Spills or leaks	Moderate	Thick unsaturated zone and deep intake	Low	Spill and leak control program Prohibit vehicles in control zones
Shop Well #4 & Office Well #5	Abandoned oil refinery hazardous waste site (RERC)	VOCs	Spills or leaks	Moderate	Thick unsaturated zone and deep intake	Low	Groundwater monitoring programs
Shop Well #4 & Office Well #5	Service Stations	Gasoline and diesel fuel	Spills or leaks	Moderate	Thick unsaturated zone and deep intake	Low	Spill and leak control program
Shop Well #4 & Office Well #5	Pond/slough	Microbial contaminants	Leaching of contaminants into the groundwater	Moderate	Thick unsaturated zone and deep intake	Moderate	Spill and leak control program
Shop Well #4 & Office Well #5	Livestock	Microbial contaminants	Leaching of contaminants into the groundwater	Moderate	Thick unsaturated zone and deep intake	Low	Spill and leak control program
Bluff Wells #1, #2, #3, #4	Residential lawn care	Chemical fertilizers, herbicides and pesticides	Spills, leaks or improper application	Moderate	Thick unsaturated zone and deep intake	Low	Spill and leak control program Apply lawn chemicals at proper rates, Restrict all application in the control zones of wells.
Bluff Wells #1, #2, #3, #4	Diesel fuel storage tank in pump station	Diesel fuel	Spills or leaks	Low	Physical contaminant basin Thick unsaturated zone and deep intake	Very Low	Tank inspection program Remove tank from control zone Leak detection and Groundwater monitoring programs
Shop Well #4 & Office Well #5	Abandoned pole treatment hazardous waste site (KPTC)	cis 1,2 Dichloroethylene, trans 1,2 Dichloroethylene, lead, sulfate, other solvents	Chemical leaching into groundwater	Low	Thick unsaturated zone and deep intake	Very Low	Groundwater monitoring programs