

City of Bonners Ferry – 2024 Annual Water Quality Report

Water System Information

City of Bonners Ferry
7232 Main Street, P.O. Box 149
Bonners Ferry, Idaho 83805-0149
Public Water System - ID#1110003

Water Treatment Plant Operator – Andre Rosengrant Number of Connections – 1,428 Population Served – ~3,427

This report is a summary of last year's water quality for the City of Bonners Ferry water system. Included are details about where your water comes from, what it contains, and how it compares to state and federal standards. We are committed to providing you with information because informed citizens are our best advocates. This report will not be mailed to our customers. However, printed copies may be picked up at Bonners Ferry City Hall. The report can be viewed online at www.bonnersferry.id.gov, by clicking on the *Departments* tab, then by clicking on the *Utilities* tab. The Consumer Confidence Report is listed on the Utilities page under the Water Department heading. Additionally, the public is welcome to attend the Bonners Ferry City Council meetings. Regular meetings are held on the first and third Tuesday of each month at 7:00 PM in Council Chambers at City Hall located at 7232 Main Street.

Water Sources

The City utilizes two surface water sources for their drinking water supply that require filtration and disinfection at the City's Water Treatment Plant (WTP). The primary source is Myrtle Creek, while the Kootenai River provides the city with a secondary source. The City also has a well as a third source. The City water system is also interconnected with the Cabinet Mountain Water District (CMWD), which utilizes groundwater wells adjacent to the Kootenai River. The Kootenai River, Well and the CMWD sources are rarely used by the city but do provide good emergency back-up sources. For questions regarding CMWD's Annual Water Quality Report, go to www.cmwd.org/reports/.

Source Water Assessment and its availability

The Idaho Department of Environmental Quality (DEQ) developed a Source Water Assessment for the City which can be obtained at City Hall.

Definitions

- **Action Level:** The concentration of a contaminant, which, if exceeded, triggers treatment, or other requirements that a water system must follow.
- **Initial Distribution System Evaluation (IDSE):** IDSE is an important part of the Stage 2 Disinfection By-Products Rule (DBPR). The IDSE is a one-time study conducted by some water systems, providing disinfection or chlorination, to identify distribution system locations' with concentrations of Trihalomethanes (THMs) and Haloacetic acids (HAAs). Water systems will use results from the IDSE,

in conjunction with their Stage 1 DBPR compliance monitoring data, to select monitoring locations for Stage 2 DBPR. Not all water systems were required to perform an IDSE.

- **Maximum Contamination Level (MCL):** 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.
- **Maximum Contamination Level Goal (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 (MRDL):** The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Maximum Residual Disinfectant Level Goal (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 contamination.
- **NTU** – Nephelometric Turbidity Unit, an increment of turbidity measurement
- **ppb** – Parts per billion; also equivalent ug/L
- **ppm** – Parts per million; also equivalent to mg/L
- **Treatment Technique:** A required process intended to reduce the level of a contaminant in drinking water.
- **Turbidity** – A measure of water clarity

Health Information

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 or other health issues. These people should seek advice about drinking water from their health care providers. The Environmental Protection Agency (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 1-800-426-4791 or <http://www.epa.gov/safewater/hotline/>.

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 1-800-426-4791 or <http://www.epa.gov/safewater/hotline/>.

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. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants that may be present in source water before we treat it 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 storm water 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 storm water runoff, and residential uses.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also can come from gas stations, urban storm water runoff, and septic systems.
- **Radioactive contaminants**, which can be naturally-occurring or be the result of oil and gas production and mining activities.

Level of Detected Contaminants and Associated Health Effect Language

The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems.

Level of Detected Chemical and Radiological Contaminants and Associated Health Effects Language

Unless otherwise noted, the data presented in this water quality table is from testing performed (January 1, 2024 - December 31, 2024).

Contaminant	Violation (Y/N)	MCL	MCLG	Lowest Level Detected	Highest Level Detected	Date Tested	Typical Source of Contamination	Health Effects Language
Chemical and Radiological Contaminants								
Arsenic (ppb)	N	10	0	<3.0	<3.0	01/25/22	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.	Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer.
Nitrate (ppm)	N	10	10	<0.05	.058	01/31/25	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.

Disinfection and Disinfection Byproducts

The City of Bonners Ferry uses chlorine as a disinfectant. Although chlorine quickly kills most bacteria, it is less effective against organisms such as viruses and parasites. For this reason, water needs to mix with chlorine for a longer time period to kill such organisms. The amount of time necessary, or the contact time, depends on the amount of disinfectant in the water and the temperature of the water. We routinely monitor for disinfectant residual in the distribution system. This measurement tells us whether we are effectively disinfecting the water supply. Disinfectant residual is the amount of chlorine or related disinfectant present in the pipes of the distribution system. If the amount of disinfectant is too low, organisms could grow in the pipes.

Maximum Residual Disinfectant Level:

Contaminant	Violation (Y/N)	MCL	MCLG	Highest Level Detected	Running Annual Average	Sample Frequency	Typical Source of Contamination
Chlorine (ppm)	N	MRDL = 4	MRDLG = 4	2.00	0.93	Continuous	Water additive used to control microbes

To meet the Safe Drinking Water Act the City uses chlorine to disinfect your water. However, this also produces disinfection by-products that may be harmful when consumed at elevated quantities over extended periods of time. There are 2 separate sampling sites the city uses.

Disinfection Byproducts

Contaminant	Violation (Y/N)	MCL	MCLG	Highest Level Detected	Locational Running Annual Average	Range	Typical Source of Contamination
Total Trihalomethanes (ppb)	N	80	n/a	86.5	Site 1 – 63.4	34.6 – 86.5	By product of drinking water chlorination
	N			44.6	Site 2 – 30.9	17.3 – 44.6	
Haloacetic Acid Group 5 (ppb)	N	60	n/a	46.6	Site 1 – 31.2	15 – 44.6	By product of drinking water chlorination
	N			34.3	Site 2 – 26	11.7 – 34.3	

Site 1-Kootenai Tribe Site 2-City Hall

Lead Informational Statement (Health effects and ways to reduce exposure)

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. The City of Bonners Ferry is responsible for providing high quality drinking water, but 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 drinking 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 is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Lead and Copper

Contaminant	Action Level (AL)	MCLG	Date(s) Collected	90th Percentile	No. of sites above AL	Violation Y/N	Possible Source of Contamination	Health Effects Language
Lead (ppb)	15	0	06/11/24	.0011	0	N	Corrosion of household plumbing systems: Erosion of natural deposits.	Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.
Copper (ppm)	1.3	1.3	06/11/24	0.014	0	N	Corrosion of household plumbing systems: Erosion of natural deposits.	Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

Turbidity Testing

Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. These symptoms are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice.

Turbidity Results:

Turbidity/Units	MCL/TT	MCLG	Highest Level Found	Range	Sample Period	Violation Y/N	Typical Source
Turbidity (NTU)	1 NTU	0	0.75	.02 - 0.75	Continuous	N	Soil runoff
	95% of all samples must be <0.3NTU		>95% of all samples were <0.3 NTU	n/a	Continuous	N	Soil runoff

Coliform Bacteria Monthly Testing

Coliform Samples are procured at three different sample sites from three different groups of sites that rotate every month. Group one sample sites are taken at the Community Hospital, City Hall and the local Forest Service office. Group two samples are taken at Boundary Tractor, the local Senior Apartments and the Panhandle Health Office. Group three samples are taken at the local Fire Station, Zip Trip, and The Kootenai Tribe.

Contaminants	MCL in MG/L	Source	Positive Y/N	Health Effects Language
Total Coliform Bacteria	If positive, Repeat Sample and Sample above and below positive sample site	Naturally Present in Environment	NO	Coliforms are bacteria that are naturally Present in the Environment and are used as an Indicator that other potentially harmful bacteria are present. Coliforms were found in more samples than allowed and this was a warning of the potential problems.
Fecal Coliform And E.Coli	If positive, Repeat Sample and Sample above and below positive sample site	Human and Animal Fecal waste	NO	Fecal Coliforms and E. Coli are bacteria whose presence indicates that the water may be contaminated with human or animal waste. Microbes in these waters can cause short-term effects such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children and people with severely compromised immune systems.

The City continues to optimize its filtration and disinfection processes with the goal of providing the best possible drinking water to its customers. Should you have any questions and/or comments about your drinking water, please contact either Andre Rosengrant or Chris Lewandowski at (208) 267-4380. Copies of this report are available at Bonners Ferry City Hall located at 7232 Main Street.