

## 2021 Annual Drinking Water Quality Report Bowman, North Dakota

We are very pleased to provide you with this year's Annual Drinking Water Quality Report. We want to keep you informed about the excellent water and services we have delivered to you over the past year. Our goal is to provide you with a safe and dependable supply of drinking water. Our water source is from the Foxhill and Hell Creek Aquifer. We have five (5) wells with depths from 1050' to 1150'.

Community water systems are required to fully inform citizens about the source and quality of their drinking water, however, events since September 11, 2001 also required that disclosure of public information does not threaten the security of water systems.

The City of Bowman is participating in North Dakota's Wellhead Protection Program. Copies of the Wellhead Protection Program plan and other relevant information regarding this program can be obtained from the City Auditor during normal office hours.

Our public water system, in cooperation with the North Dakota Department of Environmental Quality, has completed the delineation and contaminant/land use inventory elements of the North Dakota Source Water Protection Program. Based on the information from these elements, the ND Department of Environmental Quality has determined that our source water is not likely susceptible to potential contaminants.

**"I'm pleased to report that our drinking water is safe and meets federal and state requirements", said Bill Mason, Water Superintendent.**

This report shows our water quality and what it means. We want our valued customers to be informed about their water utility, so if a customer has any questions please contact Water Superintendent, Bill Mason at 701.523.5771 or attend a regular scheduled City Commission meeting held on the 1<sup>st</sup> & 3<sup>rd</sup> Tuesday of every month at 4:00 PM at City Hall. If you are aware of non-English speaking individuals who need help with the appropriate language translation, please call City Hall at 701-523-3309.

The City of Bowman would be appreciative if large volume water customers would please post copies of this Annual Drinking Water Quality Report in conspicuous locations or distribute them to tenants, residents, patients, students, and/or employees, so individuals who consume the water, but do not receive a water bill can learn about our water system. We will make a "Good Faith" effort for this report to be available to all residents.

The City of Bowman routinely monitors for contaminants in your drinking water according to Federal and State laws. The following table shows the results of our monitoring for the period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2021. As authorized and approved by EPA, the state has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of our data, though representative, is more than one year old.

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 effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791)

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:

**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 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.

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/ Center 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 (800-426-4791).

2021 Annual Drinking Water Table

	# of Samples	AL	90 <sup>th</sup> Percentile	Range	Year	Violation	Likely Source of Contamination
<b>Lead/Copper</b>							
Copper 90 <sup>th</sup> Percentile	10	1.3	.37	ppm NA	2021	0 Sites Exceed AL	Corrosion of household plumbing systems, erosion of natural deposits;
Lead 90 <sup>th</sup> Percentile	10	15	1.78	ppb NA	2021	0 Sites Exceed AL	Corrosion of household plumbing systems, erosion of natural deposits; leaching from wood preservatives
	<b>MCLG</b>	<b>MCL</b>	<b>High Comp.</b>	<b>Unit</b>	<b>Range</b>	<b>Year</b>	<b>Violation</b>
<b>Synthetic Organic Contaminants including Pesticides and Herbicides</b>							
Pentachlorophenol	0	1	0.022	ppb	ND to 0.022	2017	NO Discharge from wood preserving factories
<b>Radioactive Contaminants</b>							
Gross Alpha include RA/ exclude RN & U	15	15	.47	pCi/l	NA	2018	NO Erosion of natural deposits
Radium Combined (226,228)	0	5	.61	pCi/L	NA	2018	NO Erosion of natural deposits
<b>Stage 2 Disinfection By-products</b>							
Total Haloacetic Acids HAA5	NA	60	6	ppb	4.52 to 5.65	2021	NO By-product of drinking water disinfection
TTHM	NA	80	46	ppb	45.09 to 45.98	2020	NO Discharge from metal; degreasing sites and other factories
<b>Disinfectants</b>							
Chlorine	MRDLG =4	MRDL =4.0	0.3	ppm	0.15 to 0.50	2021	NO Water additive used to control microbes
Violations Lead Consumer Notice 8/5/2021 – 10/18/2021 Lead & Copper Rule							

## **Abbreviations**

**ppb** -parts per billion or micrograms per liter; **ppm** -parts per million or milligrams per liter; **ppt** – part per trillion or nanograms per liter; **pdg**-parts per quadrillion or picograms per liter; **NA** – not applicable; **ND** – none detected; **umho/cm** =micromhos per centimeter (a measure of conductivity); **obsvns**=observations/field at 100 Power, **IDSE**= initial distribution system evaluation; **pCi/L** ~ *picocuries per liter* ( measure of the radioactivity in water)

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

**TT** ~ *Treatment Technique* is a treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

**MCL** ~ *Maximum Contaminant Level* 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* 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.

**MRDL** ~ *Maximum Residual Disinfectant Level* is 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* is 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.

**Range** ~ is the detection of the lowest to highest result value recorded during the required monitoring timeframe for systems with multiple entry points.

**Highest Compliance Level** ~ The highest level of the contaminant used to determine compliance with a National Primary Drinking Water Regulation

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 line and home plumbing. City of Bowman is responsible for providing high quality drinking water, but cannot control the variety of materials used plumbing components. **Use water from the cold tap for drinking and cooking. 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>.

Thank you for allowing us to provide your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. These improvements sometimes require rate structure adjustments.

Please call City Hall at 701.523.3309 if you have questions.

The CITY OF BOWMAN works around the clock to provide top quality water to every tap. We ask that all customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

THIS REPORT IS AVAILABLE AT CITY HALL AND AT [WWW.BOWNANND.COM](http://WWW.BOWNANND.COM)  
<https://bowmannd.com/cities/city-of-bowman/departments/water/>