



*Annual Drinking Water Quality Report, 2007  
Traill Rural Water District*

*We're pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. 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. Our water source is ground water from the Galesburg aquifer. Our 18 wells are located between the cities of Clifford and Portland. The well water is treated at our iron and manganese removal treatment plant.*

*Traill Rural Water District is involved in the Wellhead Protection Program. Copies of the Wellhead Protection report along with other relevant information are available at our Clifford Office during normal business hours. "Our public water system, in cooperation with the North Dakota Department of Health, 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 North Dakota Department of Health has determined that our source water is not susceptible to potential contaminants."*

*I'm pleased to report that our drinking water is safe and meets federal and state requirements.*

*Traill Rural Water District would appreciate it if large volume water customers post copies of the Annual Drinking Water 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. If you have any questions about this report or concerning your water utility, please contact **Jerome Olson, Manager**, 26 Plummer ST S, PO Box 25, Clifford, ND 58016, or call 1-701-488-2536. If you are aware of non-English speaking individuals who need help with the appropriate language translation, please call Jerome Olson at the number listed above. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the second Thursday of each month at 7:30 AM at the utility office in Clifford, North Dakota.*

***Traill Rural Water District** routinely monitors for constituents in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of **January 1<sup>st</sup> to December 31, 2007**. All drinking water, including bottled drinking water, may reasonably be expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.*

*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 materials and can pick up substances resulting from the presence of animals or from human activity.*

*Contaminates 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, Environmental Protection Agency (EPA) prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water that 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 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.

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 (800-426-4791).

#### Definitions:

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

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

**Maximum Contaminant Level** - The "Maximum Allowed" (**MCL**) 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.

**Maximum Contaminant Level Goal** - The "Goal" (**MCLG**) 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.

Table of Detected Regulated Contaminants: The data presented is for 2007 or the most recent in accordance with state and federal regulations.

(Consumer Confidence Reports, Safe Drinking Water Act Chemical/Radiological Detected results from 2003-2007)

<b>TEST RESULTS</b>								
<u>Contaminant</u>	<u>MCLG</u>	<u>MCL</u>	<u>Highest Compliance level &amp; Unit of Measurement</u>	<u>Violation Yes/No</u>	<u>Range of Detection</u>	<u>Year, Date Obtained</u>	<u>Other Information</u>	<u>Likely Source of Contamination</u>
<b>Inorganic Contaminant</b>								
1. Arsenic AS	0	10 ppb	9.42 ppb	NO		10/09/2007		Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
2. Nitrate+Nitrite (as N)	10 ppm	10 ppm	*0.06 ppm	NO		2/20/2007		Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
3. Copper (10 samples)	1.3ppm	AL=1.3 ppm	1.16 ppm 90 <sup>th</sup> percentile value	NO		7/06		Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
4. Lead (10 samples)	15ppb	AL=15 ppb	0 ppb 90 <sup>th</sup> percentile value	NO		7/06		Corrosion of household plumbing systems, erosion of natural deposits
<b>Radiological Chemicals</b>								
Gross Alpha, Including RA, Excluding RN & U	15pci/l	15pci/l	3.28pCi/l	NO		09/26/03		Erosion of natural deposits.
Uranium, Combined		30ug/l	3.65ppb	NO		09/26/03		Erosion of natural deposits.
<b>DISINFECTANTS</b>								
CHLORINE	MRDLG=4	MRDL=4.0	1.1ppm	NO	Range of Detections 0.84 to 1.1	6/30/2007		Water additive used to control microbes

*In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions.*

*AL=Action Level*

*MCL=Maximum Contaminant Level*

*MCLG=Maximum Contaminant Level Goal*

*MFL=million fibers per liter*

*MRDL=Maximum Residual Disinfection Level*

*MRDLG= Maximum Residual Disinfection Level Goal*

*mrem/year=millirems per year (a measure of radiation absorbed by the body)*

*N/A=Not Applicable*

*NTU=Nephelometric Turbidity Units (a measure of water clarity)*

*pCi/l=picocuries per liter (a measure of radioactivity)*

*ppm=parts per million, or milligrams per liter (mg/l)*

*ppb=parts per billion, or micrograms per liter (g/l)*

*ppt=parts per trillion, or nanograms per liter*

*ppq=parts per quadrillion, or picograms per liter*

*TT=Treatment Technique*

*Highest Compliance Level: The highest level of that contaminant used to determine compliance with a national Primary Drinking Water Regulation.*

*Range of Detections: The lowest to the highest result value recorded during the required monitoring time frame.*

*MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.*

*While your drinking water meets EPA's standards for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects. 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 in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.*

*Infants and young children are typically more vulnerable to lead in drinking water than the general population. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental developments. 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.*

*It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (1-800-426-4791).*

*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.*

*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 increased risk of getting cancer.*

*Some people who drink water containing uranium in excess of the MCL over many years may have an increased risk of getting cancer and kidney toxicity.*

*Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.*

*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.*

*As you can see by the table, our system had no violations. We're proud that your drinking water meets or exceeds all Federal and State requirements. 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.*

*Please call our office if you have questions. 1-701-488-2536*

*We, at Traill Rural Water District, work around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.*

*A terrorist act in rural and small communities is unlikely. However, that does not mean it can be ignored and each of us has the obligation to take as many steps as possible to prevent such an act. A list of links for more information is available at [www.nrwa.org](http://www.nrwa.org)*

*We would appreciate any help from the public that we can get in the observation of the utility assets. Please contact our office or Jerome Olson any time on his cell phone at 701-430-0145*

*This report is available on our web page [www.trailrruralwater.com](http://www.trailrruralwater.com)*

***Please E-mail me if you have any comments, suggestions or questions. [jeromeo@trailrruralwater.com](mailto:jeromeo@trailrruralwater.com)***

*Thank You From The  
Board of Directors and Staff*

*LeRoy Brenna, Pres.  
RR1 Box 71  
Clifford, ND 58016  
1-701-488-2701*

*Leo Ackerman, V.P.  
RR2 Box 77  
Hillsboro, ND 58045  
1-701-436-5459*

*Howard Cotton, Sec. Treas.  
RR1 Box 16  
Cummings, ND 58223  
1-701-436-5099*

*David Lee  
RR2 Box 178  
Hatton, ND 58240  
1-701-543-3810*

*Bruce Thorsrud  
RR1 Box 75  
Grandin, ND 58038  
1-701-484-5645*

*Tim Kozojed  
309 162<sup>nd</sup> Ave. SE  
Hillsboro, ND 58045  
1-701-436-3904*

*Rick Tessin  
RR1 Box 40  
Hillsboro, ND 58045  
1-701-436-3369*

*Jerome M. Olson, Manager  
17009 9<sup>th</sup> St. SE  
Grandin, ND 58038  
1-701-860-6006*

*Lauren Sparrow, Assistant Manager  
549 4<sup>th</sup> St. SE  
Mayville, ND 58257  
1-701-788-2240*

*Erin Bjerke, Office Manager  
RR1 Box 40  
Clifford, ND 58016  
1-701-430-2520*

*Mike Munter, Operator  
106 2<sup>nd</sup> St. SE  
Hillsboro, ND 58045  
1-701-636-5542*

*Stuart A. Larson, Atty.  
PO Box 847  
Hillsboro, ND 58045  
1-701-636-4461*

*Cal Thelen  
Advanced Engineering  
2016 Washington Street South  
Grand Forks, ND 58201  
701-746-8087*

*Jerome's cell 1-701-430-0145  
Lauren's Cell 1-701-430-0505  
Erin's cell 1-701-430-2025  
Mike's Cell 1-701-430-0255*