

Rosebud Rural Water System

2023 Water Quality Report (pws #4690528)

July, 2024

A look at your local water quality:

In compliance with the 1996 Safe Drinking Water Act Amendments, *Rosebud Rural Water System* is providing our water users with this report on the quality of our drinking water. This report presents data compiled during the past twelve months from **January 1, 2023 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.

RST-Rural Water Systems is pleased to inform the public that your water is “safe” and meets all federal Drinking Water Standards. During this reporting year the water was tested monthly for bacteriological contaminants, Nitrates, Synthetic Organic Chemicals, and Disinfection By-Products. All water samples were analyzed at an USEPA certified laboratory. Hard copy reports are on file at the RST-Rural Water Systems office and USEPA Region 8 office. RST-Rural Water Systems annual water quality report for Rosebud Rural Water System can be seen at <https://www.rosebudsiouxtribe-nsn.gov/reports>.

For additional information concerning this report please call RST-Rural Water Systems Director Young Colombe at (605) 747-2378.

You should know:

Some persons 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 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 risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Did you know:

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, can 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 amount of certain contaminants in water provided by public water systems. 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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling RST-Rural Water Systems at (605) 747-2378 or the EPA's Safe Drinking Water Hotline (800) 426-4791.

Our Water Source:

Our ground water comes from the **Ogallala Aquifer**. The Ogallala Aquifer is one of the world's largest water sources extending

from Texas to Southern South Dakota. An isopach map generated indicates that the aquifer thickness ranges from 90-190 feet with lithology comprised of siltstone to fine or medium grained sandstone with TDS lower than 500 ppm. Currently, the Rosebud Rural Water System uses five production wells to pump water from the aquifer into our system.

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.

Source Water Information:

<u>Source Water Name</u>	<u>Type of Water</u>	<u>Report Status</u>
<u>Location</u> Well 84-1 Rosebud	GW	Active
Well 84-2 Rosebud	GW	Active
Well 84-3 Rosebud	GW	Active
Well 98-8 Rosebud	GW	Active
Well 98-9 Rosebud	GW	Active

Treatment:

Our ground water system is treated with a small amount of chlorine. Chlorine is used as a disinfectant to eliminate coliform bacteria and pathogenic viruses. Public water systems are required by law to disinfect their systems to prevent water borne illnesses.

Bacteriological Monitoring:

Bacteriological monitoring is performed monthly to test for the presence of coliform bacteria, fecal coliform, and *E.coli*. Our system is required to collect six samples per month as defined by the size and population served. Our samples indicated zero contaminants during this reporting period and that the system was bacteriologically safe.

Chemical Monitoring:

Note to our water users: The USEPA requires us to monitor for certain contaminants or parameters in source waters before systems are initiated. SOC samples were required twice during a nine-year compliance period between January 1, 2011-December 31, 2019. Our system collected only one set of SOCs during the nine year sampling period which was a reportable violation. A second set of SOCs will be collected and reported shortly. VOCs were required to monitor once during a three year period between January 1, 2017-December 31, 2019. Any contaminants over the MCL reported in the initial sampling will have increased sample-monitoring schedules. Systems reporting low to zero levels may be issued a waiver and allowed to take fewer samples during the compliance period.

Lead Monitoring:

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 Rosebud Rural Water System 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>.

Local water quality contacts:

Questions regarding your local water quality can be directed to Young Colombe at RST-Rural Water Systems (605) 747-2378. Our commitment is to provide quality water on tap to the people of the Rosebud, Soldier Creek, Parmelee, Upper Cut Meat, He Dog, Antelope/White Horse, Okreek, and Upper Grass Mountain areas.

2023 Regulated Contaminants Detected – Rosebud Rural Water 084690528