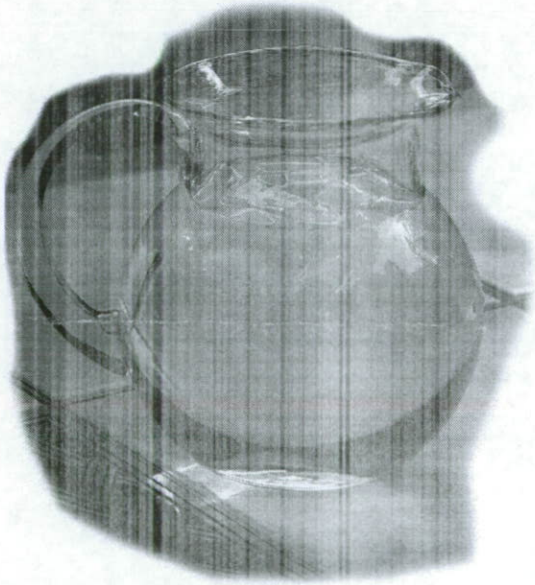
You can contact us by calling
(605)920-1447 or write us at
PO Box 269
Deadwood SD 57732

Shirt Tail Gulch Development

2016 Drinking Water Report

It's your tap water!



EPA ID: 2232

Water Quality

Last year, the Shirt Tail Gulch Development monitored your drinking water for possible contaminants. This brochure is a snapshot of the quality of the water that we provided last year. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies.

Water Source

We serve more than 60 customers an average of 5,000 gallons of water per day. Our water is groundwater that we produce from local wells. The state has performed an assessment of our source water and they have determined that the relative susceptibility rating for the Shirt Tail Gulch Development public water supply system is medium.

For more information about your water and information on opportunities to participate in public meetings, call (605)578-1713 and ask for Jon Mattson.

Additional Information

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

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, 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. FDA regulations establish limits for contaminants in bottled water which 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 the Environmental Protection Agency's Safe Drinking Water Hotline (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 microbial contaminants can be obtained by calling the Environment Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 Shirt Tail Gulch Development public water supply 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 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.*

Detected Contaminants

The attached table lists all the drinking water contaminants that we detected during the 2016 calendar year. The presence of these 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 January 1 – December 31, 2016 The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

While your drinking water meets EPA's standard 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 such as skin damage and circulatory problems.

Violations

Your system had violations in 2016. Please see the attached Table of Violations for information concerning these violations.

2016 Table of Detected Contaminants For Shirt Tail Gulch Development (EPA ID 2232)

Terms and abbreviations used in this table:

** Maximum Contaminant 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 Contaminant 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.*

** Action Level(AL): the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow. For Lead and Copper, 90% of the samples must be below the AL.*

** Treatment Technique(TT): A required process intended to reduce the level of a contaminant in drinking water. For turbidity, 95% of samples must be less than 0.3 NTU*

Units:

**MFL: million fibers per liter*

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

**NTU: Nephelometric Turbidity Units*

**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(ug/l)*

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

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

**pspm: positive samples per month*

Substance	90% Level	Test Sites > Action Level	Date Tested	Highest Level Allowed (AL)	Ideal Goal	Units	Major Source of Contaminant
Copper	0.1	0	08/30/16	AL=1.3	0	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Lead	3	0	08/29/16	AL=15	0	ppb	Corrosion of household plumbing systems; erosion of natural deposits.

Substance	Highest Level Detected	Range	Date Tested	Highest Level Allowed (MCL)	Ideal Goal (MCLG)	Units	Major Source of Contaminant
Alpha emitters	39	15 - 39	03/17/16	15	0	pCi/l	Erosion of natural deposits.
Arsenic	9	7 - 9	03/19/15	10	NA	ppb	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.
Barium	0.050		11/23/14	2	2	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Combined Radium	12	8 - 12	09/23/15	5	0	pCi/l	Erosion of natural deposits.
Combined Uranium	2	2 - 2	06/25/15	30	0	ppb	Erosion of natural deposits.
Fluoride	2.32		12/15/16	4	4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.

Please direct questions regarding this information to Mr Rollin Sieveke with the Shirt Tail Gulch Development public water system at (605)578-1513.

2016 Information on Violations For Shirt Tail Gulch Development (EPA ID 2232)

(This Drinking Water Report can be used as a Tier III Public Notice if distributed to each customer within 12 months of when the system was notified of the violation.)

Violation Type	Parameter	Date System Notified	Duration In Months	Health Effects Language	Action Taken By Your System
Exceedance of Allowable Contaminant Level	Alpha Emitters	05/16/16		Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.	Corrective action taken by your system: ( ) We have since completed the required sampling and/or reporting. ( ) We have taken additional measures within the water system administration to be sure that samples are taken properly in the future. ( ) The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations. (x) Other(specify)_Reviewed treatment options
Exceedance of Allowable Contaminant Level	Combined Radium	05/16/16		Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.	Corrective action taken by your system: ( ) We have since completed the required sampling and/or reporting. ( ) We have taken additional measures within the water system administration to be sure that samples are taken properly in the future. ( ) The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations. (x) Other(specify)__Reviewed treatment options
Exceedance of Allowable Contaminant Level	Alpha Emitters	01/30/17		Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.	Corrective action taken by your system: ( ) We have since completed the required sampling and/or reporting. ( ) We have taken additional measures within the water system administration to be sure that samples are taken properly in the future. ( ) The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations. (x) Other(specify)___Reviewed treatment options
Exceedance of Allowable Contaminant Level	Combined Radium	01/30/17		Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.	Corrective action taken by your system: ( ) We have since completed the required sampling and/or reporting. ( ) We have taken additional measures within the water system administration to be sure that samples are taken properly in the future. ( ) The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations. (x) Other(specify)___Reviewed treatment options

For additional information concerning any violation please contact Mr Rollin Sieveke with the Shirt Tail Gulch Development public water system at (605)578-1513.