

# 2015 WATER QUALITY REPORT FOR CHEROKEE RWS- MILL CREEK SUBSYSTEM

This report contains important information regarding the water quality in our water system. The source of our water is ground water. Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	LRAA	30.00 (30 – 30)	9-30-15	No	By-products of drinking water chlorination
Total Haloacetic Acids (ppb) [HAA5]	60 (N/A)	LRAA	7.00 (7 – 7)	9-30-15	No	By-products of drinking water disinfection
Lead (ppb)	AL=15 (0)	90th	3.00 (ND -14)	2015	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	AL=1.3 (1.3)	90th	0.67 (0.04 - 0.83)	2015	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
<b>950 - DISTRIBUTION SYSTEM</b>						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	1.6 (.81 - 2.01)	03-31-15	No	Water additive used to control microbes
<b>01 - WL MC-1, MC-2, OR MC-3 @ TRTMNT PLNT TAP</b>						
Gross Alpha, inc (pCi/L)	15 (0)	SGL	4.7	2-08-10	No	Erosion of natural deposits
Fluoride (ppm)	4 (4)	SGL	1.14	4-17-13	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	120	4-17-13	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10	SGL	2.78	2015	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

## DEFINITIONS

- 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.
- 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.
- ppb -- parts per billion.
- ppm -- parts per million.
- pCi/L – picocuries per liter
- N/A – Not applicable
- ND -- Not detected
- RAA – Running Annual Average
- LRAA – Locational Running Annual Average
- Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.
- Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

- 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 contaminants.
- Maximum Residual Disinfectant Level (MRDL) - 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.
- SGL – Single Sample Result
- TCR – Total Coliform Rule

The Iowa Department of Natural Resources requires us to collect 7 bacteriological samples each month from different areas of the distribution system. Half the samples must be collected during the first half of the month with the remaining samples collected during the last half of the month. Due to a lack of communication between field personal and myself, only three samples were collected the first part of May and three samples collected during the last part of May. The missed sample was in the Tower A area which serves the NE portion (Meriden and Larrabee areas) of Cherokee County. This is the first monitoring violation Cherokee Rural Water has had in 39 years of collecting samples. All bacteriological samples collected during April, May and June (20 samples total) were safe. I am sorry this violation happened and in the future promise to use all my fingers and toes while counting test results to ensure the right number of samples were collected. Should you have any questions, please contact me at the phone number below.

## **GENERAL INFORMATION**

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 posed a health risk. More information about contaminants or 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 are available from the 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. CHEROKEE RWS-MILL CREEK SUBSYSTEM 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>.

## **SOURCE WATER ASSESSMENT INFORMATION**

This water supply obtains its water from the buried sand and gravel of the Buried Sand and Gravel aquifer. The Buried Sand and Gravel aquifer was determined to have low susceptibility to contamination because the characteristics of the aquifer and overlying materials provide natural protection from contaminants at the land surface. The Buried Sand and Gravel wells will have low susceptibility to surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources, and is available from the Water Operator at 712-225-6193.

## **CONTACT INFORMATION**

For questions regarding this information or how you can get involved in decisions regarding the water system, please contact CHEROKEE RWS- MILL CREEK SUBSYSTEM at 712-225-6193.