

2021 WATER QUALITY REPORT FOR ROWAN MUNI WATER SUPPLY

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

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation	Source
		Type	Value & (Range)			
Copper (ppm)	AL=1.3 (1.3)	90th	0.43 (0.09 - 0.54)	2021	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	AL=15 (0)	90th	10.00 (ND - 13)	2021	No	Corrosion of household plumbing systems; erosion of natural deposits
950 - DISTRIBUTION SYSTEM						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	2.0 (0.37 - 2.2)	12/31/2021	No	Water additive used to control microbes
Total Coliform Bacteria	TT (TT)	RTCR	2 sample(s) positive	06/30/2021	No	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other waterborne pathogens may be present, or that a potential pathway exists through which contamination may enter the drinking water.
E. coli	Routine and repeat samples are total coliform-positive and either is E. coli-positive, or system fails to take repeat samples following E. coli-positive routine sample, or system fails to analyze total coliform-positive repeat sample for E. coli. (N/A)	RTCR	2 sample(s) positive	06/30/2021	No	E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely-compromised immune systems.
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	SGL	2.60	08/17/2020	No	By-products of drinking water chlorination
Nitrite [as N] (ppm)	1 (1)	SGL	0.0050	2021	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
01 - S/EP FROM WELL # 1 (1947) - TREATED						
Gross Alpha, inc (pCi/L)	15 (0)	SGL	1.7	06/29/2018	No	Erosion of natural deposits
Arsenic (ppb)	10 (0)	SGL	3.00	04/08/2021	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production wastes

Sodium (ppm)	N/A (N/A)	SGL	164	08/14/2019	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	0.0780	2021	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrite [as N] (ppm)	1 (1)	SGL	0.0070	2021	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
- 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
- RTCR – Revised Total Coliform Rule
- NTU – Nephelometric Turbidity Units

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. ROWAN MUNI WATER SUPPLY 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>.

CONTAMINANT VIOLATIONS

Violation Type	Contaminant	Begin date	End Date
Our water system violated a drinking water standard for Revised Total Coliform Rule (RTCR).			
MCL, EC+ (RTCR)	Revised Total Coliform Rule (RTCR)	06/01/2021	06/30/2021

COLIFORM ASSESSMENT

During the past year we were required to conduct 1 Level 2 assessment to determine the cause of bacteria in our distribution system. Corrective actions have been, or will be taken to address these issues. If a health concern is present, you will be notified.

A Level 2 Assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system on multiple occasions.

OTHER VIOLATIONS

In March 2021 we had a Lead Consumer Notice (Pb/Cu) violation for Lead & Copper Rule.

In December 2021 we had a Lead Consumer Notice (Pb/Cu) violation for Lead & Copper Rule.

In 2021 we received a public notice rule violation for failure to provide information to our customers regarding the Revised Total Coliform Rule (RTCR) MCL violation.

SOURCE WATER ASSESSMENT INFORMATION

This water supply obtains its water from the limestone and dolomite of the Mississippian-Devonian aquifer. The Mississippian-Devonian aquifer was determined to be slightly susceptible to contamination because the characteristics of the aquifer and overlying materials provide moderate protection from contaminants at the land surface. The Mississippian-Devonian well will be slightly susceptible 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 515-577-3897 .

CONTACT INFORMATION

For questions regarding this information or how you can get involved in decisions regarding the water system, please contact ROWAN MUNI WATER SUPPLY at 515-577-3897.