

Royal Municipal Water Utilities 2015 Water Quality Report

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. All of the water is purchased. Purchased water comes from Iowa Lakes Regional Water.

Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Copper (ppm)	AL=1.3 (1.3)	90th	0.08 (ND - 0.08)	2014	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	AL=15 (0)	90th	ND	2014	No	Corrosion of household plumbing systems; Erosion of natural deposits
DISTRIBUTION SYSTEM						
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	SGL	12.00	8/1/2012	No	By-products of drinking water chlorination
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	1.8 (1.5 - 2.1)	6/30/2015	No	Water additive used to control microbes

Contaminates with dates indicate results from the most recent testing done in accordance with regulations.
Definitions for the abbreviations are noted on Page 2

OTHER VIOLATIONS

In July 2015, we failed to monitor for Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5). Adverse health effects, if any, are not known. Monitoring procedures have been corrected to avoid future violations.

ILRW received the required sample bottles in late July and performed the sampling as directed by the instructions and submitted the samples to the lab. The lab contacted ILRW in August to notify ILRW that a bubble formed in one of the samples, which made the sample inconclusive. ILRW was unable to retest because notification was not received from the lab before the month of July had ended. These samples will be taken in 2016.

This water supply obtains some or all of its water from another public water supply. It is a consecutive water supply, where an originating parent supply provides drinking water to one or more downstream supplies.

<u>Original Supply ID</u>	<u>Original Supply Name</u>
IA2100701	Iowa Lakes Regional Water

Our water system purchases water from the system shown below.

Their water quality testing shows the following results:

Iowa Lakes Regional Water

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Fluoride (ppm)	4 (4)	SGL	1.6 (0.2 - 1.6)	5/27/2015	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A (N/A)	SGL	4.8	6/20/2013	No	Erosion of natural deposits; Added to water during treatment process

Royal Municipal Water Utilities is pleased to present to our customers quality water that meets and exceeds all federal and state requirements.

2015 Water Quality Report

Royal Municipal Water Utilities is pleased to present the Water Quality Report, designed to inform you about the quality of water and services we deliver.

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. Royal Municipal Water Utilities 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>.

For questions regarding this information or how you can get involved in decisions regarding the water system, please contact City Hall.



Please contact Kelly Graplar with any questions at
Iowa Lakes Regional Water
1301 38th Avenue West, Spencer, IA 51301
Phone: 712-262-8847
E-mail: kelly.graplar@ilrw.org

DEFINITIONS

MCL (Maximum Contaminant Level)-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.

MCLG (Maximum Contaminant Level Goal)-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

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

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

MRDLG (Maximum Residual Disinfectant Level Goal)-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.

MRDL (Maximum Residual Disinfectant Level)-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