

Rolla Municipal Utilities Water Quality Report 2011

This document contains the most recent testing results, complies with the regulations, and is intended as an informative summary of the contaminants found in Rolla's drinking water. Governmental agencies are continually monitoring drinking water in an effort to assure public health, and the Maximum Contaminants Levels (MCL) are set to correspond with safe consumption levels. As of this date, Rolla has monitored for many more contaminants than are depicted in this document, and to avoid confusion, contaminants not found are not listed. All monitoring is done by the Department of Natural Resources or laboratories certified by the government for that particular methodology. The Missouri Department of Natural Resources has completed a Source Water Assessment Plan for Rolla, which you may access by calling:

(573) 751-5331



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The above table lists all of the drinking water contaminants that RMU detected during the calendar year of this report, unless otherwise noted. The presence of contaminants in the water does not necessarily indicate that water poses health risks. The State has reduced monitoring frequency to less often than once per year for some contaminants because the concentrations are unlikely to vary from year to year. Some of our data, though representative, may be more than one (1) year old.

2011 ~ REGULATED CONTAMINANTS ~ 2011									
LEAD AND COPPER	90th Percentile	Range	Unit	AL	Sites/Over AL	Typical Source			
Copper (.08-.10)	0.169	0.0178-0.328	ppm	1.3	0	Corrosion of household plumbing systems			
Lead (.08-.10)	4.54	1.04-7.12	ppb	15	0	Corrosion of household plumbing systems			
CONTAMINANTS	Highest Value	Range	Unit	MCL	MCLG	Typical Source			
Fluorides (.07)	1.08	0.88-1.08	ppm	4	4	Natural Deposits: Water additive to promote strong teeth			
RADIONUCLIDES	Highest Value	Range	Unit	MCL	MCLG	Typical Source			
Gross Alpha, Particle Activity (.09)	6.1	0-6.1	pCi/l			Erosion of natural deposits			
Gross Alpha, Rn & U (.09)	4.2	0-4.2	pCi/l	15	0	Erosion of natural deposits			
Radium, combined (.09)	1.1	0-1.1	pCi/l	5		Erosion of natural deposits			
Radium-226 (.09)	1.1	0-1.1	pCi/l	5	0	Erosion of natural deposits			
Combined Uranium (.09)	1.43	0-1.43	µg/l	30		Erosion of natural deposits			
DISINFECTION BY-PRODUCTS - No detected results were found in the calendar year of 2011.									
MICROBIOLOGICAL - No detected results were found in the calendar year 2011.									
VIOLATIONS AND EXCEEDANCES - There were no violations or exceedances found in the calendar year of 2011.									

Este informe contiene informacion muy importante. Tradiscalo o prequentele a alguien que lo entienda bien.

Providing our customers with this report is just one of the many requirements the federal and state governments place on all community water systems and as always, we're eager to comply.

Your drinking water is provided by eighteen (18) wells reaching deep into the Ozark aquifer. In an effort to maintain adequate fire protection and provide fresh water to Rolla, the wells are run and rotated based on demand. At each well, Rolla's water is fluoridated for healthy teeth and bones, and chlorinated to maintain bacteriological integrity throughout the system. These chemicals are carefully monitored on a daily basis.

All 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 (EPA) *Safe Drinking Water Hotline*: (800) 426-4791.

Additional information about your water, water system, and your utility may be obtained by contacting:

Rolla Municipal Utilities
102 West 9th Street
Rolla, Missouri 65401
(573) 364-1572

www.rollamunicipalutilities.org



People You Know, Service You Trust

ABBREVIATIONS

µg/l ~	Microgram per liter of water-equal to 1 ppb
EPA ~	Environmental Protection Agency
mg/l ~	Milligrams per Liter, Corresponds to approximately one drop in ten gallons of water.
ppm ~	Parts per Million, same as Milligrams per Liter
ppb ~	Parts per Billion, corresponds with one penny in ten-million dollars
pCi/l ~	Picocuries per Liter, a measure of radioactivity in water
ND ~	Not Detected
RA ~	Radium
RN ~	Radon
U ~	Uranium

DEFINITIONS

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

Microbial Contaminants ~ Viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Cryptosporidium ~ A microscopic parasite that can be found in surface waters.

Inorganic Contaminants ~ Usually salts, and metals that may occur naturally or be introduced through storm water run-off, industrial or domestic wastewater discharges, oil or gas production, mining, or farming.

Level Found ~ Is the average of all test results for a particular contaminant.

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.

Organic Chemicals ~ Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm-water run-off, and septic systems.

Pesticides and Herbicides ~ Chemicals from a variety of sources such as agriculture, urban storm-water run-off, and residential uses.

Radioactive Contaminants ~ Materials that can be naturally occurring or be the result of oil and gas production and mining activities.

Range of Detections ~ Shows the lowest and highest levels found during a testing period, if only one sample was taken, then this number equals the Level Found.

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

90th Percentile ~ For Lead and Copper testing, 10% of test results are above this level and 90% are below this level.

Special Lead and Copper Notice

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. **Rolla** 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* (800-426-4791) or at <http://water.epa.gov/drink/info/lead/index.cfm>.

Regulations

In order to insure that tap water is safe to drink, the Department of Natural Resources (DNR) prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Department of Health regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Information

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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. Contaminants that may be present in source water, and brief explanation for each, are listed among the definitions in the report.

**** NOTICE ****

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants, are available by calling the EPA's *Safe Drinking Water Hotline*. (800) 426-4791