Jackson County Water 304 N Ranson Road Greenwood, MO 64034

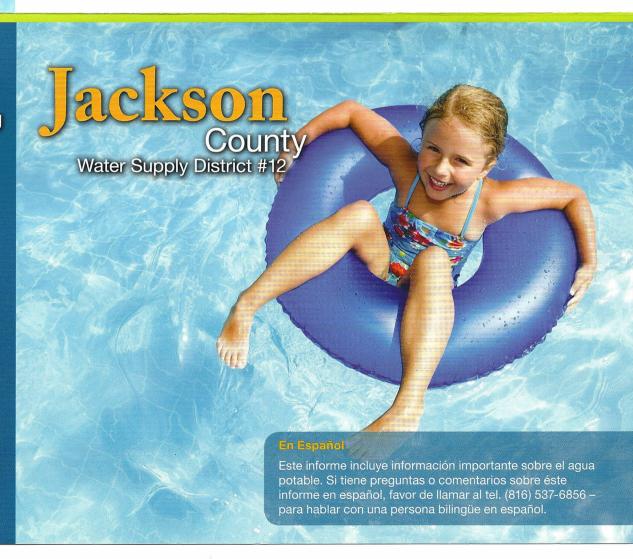
Public participation opportunities

If you have questions concerning this report or your water utility, please contact Vickie McLaughlin at (816) 537-6856. We want our valued customers to be informed about their water utility. Please call us at (816) 537-6856 to inquire about scheduled meetings.

2011 Annual Drinking Water Quality Report

This report is intended to provide you with important information about your drinking water and the efforts made to provide safe drinking water.

PWS ID# MO1024278



Test Results

We routinely monitor for constituents in your drinking water according to Federal and State laws. The test results table shows the results of our monitoring for the period of January 1st to December 31st, 2011. In the table you might find terms and abbreviations you are not familiar with. To help you better understand these terms we've provided the following definitions:

Definitions:

Maximum Contaminant Level Goal (MCLG) – Maximum Contaminant Level Goal, or 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) – Maximum Contaminant Level, or 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 – Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

TT – Treatment Technique, or 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.

Level Found – For lead and Copper testing. 10% of test results are above this level and 90% are below this level.

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

Maximum Residual Disinfectant Level Goal (MRDLG) – Maximum Residual Disinfectant Level Goal, or the level of a drinking water disinfectant below which there is no known or expected risk to health.

Maximum Residual Disinfectant Level (MRDL) – Maximum Residual Disinfectant Level, or the highest level of a disinfectant allowed in drinking water.

RAA– Running Annual Average, or the average of sample analytical results for samples taken during the previous four calendar quarters.

Abbreviations:

Parts per billion (ppb) – parts per billion or micrograms per liter.

Parts per million (ppm) – parts per million or milligrams per liter.

NA - not applicable

Nephelometric Turbidity Unit (NTU) –Nephelometric Turbidity Unit, used to measure cloudiness in drinking water.

MFL –million fibers per liter, used to measure asbestos concentration.

ND - not detectable at testing limits.

The state has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Records with a sample year more than one year old are still considered representative.

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 (1-800-426-4791).

Regulated Contaminants									
Contaminant	Date	90th Percentile	Range	Unit	AL	Sites Over AL	Typical Source		
Copper	2008 - 2010	0.114	0.00447 - 0.197	ppm	1.3	0	Corrosion of household plumbing systems		
Lead	2008 - 2010	3.76	1.16-7.61	ppb	15	0	Corrosion of household plumbing systems		

Con	taminant	Result	MCL	MCLG	Typical Source
Colin	form (TCR)	returned as positive	MCL: Systems that Collect Less Than 40 Samples per Month - No more than 1 positive monthly sample	0	Naturally present in the environment

Violations and Health Effects Information

During the 2011 calendar year, we had the below noted violation(s) of drinking water regulations.

Туре	Category	Analyte	Compliance Period
MCL (TCR), Monthly	Maximum Contaminant Level Violation	Coliform (TCR)	02/01/2011 - 02/28/2011

Additional Required Health Effects Language:

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

Reseller Con	Reseller Contaminants									
Regulated Contaminants	Collection Date	Water System	Highest Value	Range	Unit	MCL	MCLG	Typical Source		
Atrazine	5/25/2011	Kansas City	1.55	0 - 1.55	ppb	3	3	Runoff from herbicide used on row crops		
Barium	5/16/2011	Tri County Water Authority	0.0493	0.0493	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits		
Chromium	12/31/2011	Kansas City	4	0-4	ppb	100	100	Discharge from steel and pulp mills		
Fluoride	5/16/2011	Tri County Water Authority	0.17	0.17	ppm	4	4	Natural deposits; Water additive which promotes strong teeth		
Nitrate-Nitrite	11/10/2011	Tri County Water Authority	0.08	0.08	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits		
Selenium	5/31/2011	Kansas City	2.8	0-2.8	ppb	50	50	Erosion of natural deposits		
Disinfection Byproducts	Monitoring Period	Water System	Highest RAA	Range	Unit	MCL	MCLG	Typical Source		
Total Haloacetic Acids (HAA5)	2009	Kansas City	16	14.9	ppb	60	0	Byproduct of drinking water disinfection		
Total Tri- halomethanmes (TTHM)	2009	Kansas City	10	3.8	ppb	80	0	Byproduct of drinking water disinfection		

Reseller Secondary Contaminants			Highest Value	Range	Unit	MCL	MCLG
1,1-Dichloro-2-	4/6/2011	Kansas City	0.00083	0-0.00083	mg/l		
Propanone Alkalinity, CACO ₃ Stability	5/16/2011	Tri County Water Authority	67.8	67.8	mg/1		
Alkalinity, Total	1/31/2009	Kansas City	219	190 - 219	mg/1		
Boron, Total	9/30/2011	Kansas City Kansas City	0.096	0.04 - 0.096	mg/l		
Bromochloroacetic Acid	7/6/2011	Kansas City Kansas City	0.00144	0.00113 - 0.00144	mg/l		
Calcium	5/31/2011	Kansas City Kansas City	55.6	30.2 - 55.6	mg/l		
		Tri County Water Authority	21.5	21.5	mg/l	250	
Hardness, Carbonate			111	111	mg/1	250	
Iron	5/16/2011	Tri County Water Authority	0.0314	0.0314	mg/1	0.3	
Magnesium	5/16/2011			17.1	mg/1	0.5	-
Manganese 2/28/2011		Kansas City	17.1 0.002	0-0.002	mg/1	0.05	-
pH	8		8.2	8.2	pH	8.5	
-		Kansas City	8.35	6.11 - 8.35	mg/l	0.5	
Silica	2/28/2011 Kansas City		5.15	2.38 - 5.15	mg/l		
Sodium	9/30/2011	Kansas City	68.5	43.9 - 68.5	mg/1		20
Strontium	5/31/2011	Kansas City	0.251	0.197 - 0.251	mg/1		
Sulfate	5/16/2011	Tri County Water Authority	100	100	mg/1	250	
Total Dissolved Solids	5/16/2011	Tri CountyWater Authority	263	263	mg/l	500	
		Kansas City	0.004	0.002 - 0.004	mg/1	5	1 : : :

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. Any unregulated contaminants detected are reported in this table. For additional information and data visit http://www.epa.gov/safewater/ucmr/ucmr2/index.html or call the Safe Drinking Water Hotline at (800) 426-4791.



2011 Annual Drinking Water Quality Report

Our drinking water is regulated

Jackson County Public Water Supply District #12 is pleased to share this report with you. This report is a summary of the quality of the water we provide our customers. The analysis covers January 1 through December 31, 2011, and was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the attached pages. We hope this information helps you become more knowledgeable about what's in your drinking water.

Substances that can be in drinking water

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, 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 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 byproducts 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.

Where do we get our drinking water?

Our water source is purchased, pretreated water from Tri-County Water Authority and Kansas City, Missouri Water Services Department. Tri-County relies on groundwater. Their wells are located in the Missouri River Alluvium. Tri-County treats your water using disinfection to reduce harmful bacteria. Kansas City, Mo. Relies on surface water from the Missouri River. Kansas City, Mo. treats your water through a multi-step process involving coagulation sedimentation, disinfection and filtration.

Source water assessment

The Missouri Department of Natural Resources prepared a source water assessment plan (SWAP) for each of our two purchased water sources. These reports include a delineation of areas providing water for each of their water sources, an inventory of the regulated and unregulated drinking water contaminants within the delineated area, and a determination of the systems' relative susceptibility to contamination. These reports gave a susceptibility rating for the following contaminants: Volatile Organic Compounds, Nutrients, Radio-nuclides, Radon, Pathogens, Pesticides, Disinfection By-product Precursors, Inorganic Compounds and Synthetic Organic Compounds. If a system is rated highly susceptible for a contaminant category, it does not mean a customer is or will be consuming

contaminated drinking water. The ratings reflect the potential for contamination of source water, not the existence of contamination. The full reports can be obtained at the Missouri Department of Natural Resources website.

All drinking water may contain contaminants

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. 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. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (1-800-426-4791).

Is our water system meeting other rules that govern our operations?

The Missouri Department of Natural Resources regulates our water system and requires us to test our water on a regular basis to ensure its safety. Our system has been assigned the identification number MO1024278 for the purposes of tracking our test results. During 2011, we tested for a variety of contaminants. The detectable results of these tests are included in this report. Any violations of state requirements or standards will be further explained later in this report.

Required health information for lead

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. Jackson County PWSD 12 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 www.epa.gov/safewater/lead

Cryptosporidium and Giardia

Cryptosporidium and Giardia are microscopic organisms that are relatively widespread in the environment. Surface waters, such as lakes and rivers that contain a high amount of sewage contamination or animal wastes are more susceptible to increased numbers of these parasites. The Kansas City, Mo. Water Services Department is taking steps to make sure these organisms do not pose a problem in your drinking water. Current protection measures taken include chlorination, filtration and monitoring turbidity levels and particle sizes. Additionally, routine backwashing of the filters helps to eliminate the chances of finding these organisms in treated water. Occasionally, these organisms have been found in the raw (untreated) water, but neither Cryptosporidium nor Giardia has ever been detected in the finished (treated) water. The Kansas City, Mo. Water Services Department continues to monitor for these and other contaminants, taking all necessary precautions to ensure your water is safe.