Annual Drinking Water Quality Report

REND LAKE INTER-CITY WATER SYSTEM

IL0555100

Annual Water Quality Report for the period of January 1 to December 31, 2014

This report is intended to provide you with important information about your drinking water and the efforts made by the REND LAKE INTER-CITY WATER SYSTEM to provide safe drinking water.

The source of drinking water used by REND LAKE INTER-CITY WATER SYSTEM is Surface Water. For more information regarding this report contact:

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Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

Source of Drinking Water

The sources of drinking water (both tap water 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 pickup 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 storm water 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 storm water runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and may come from gas stations, urban storm water runoff, and septic systems.

Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities. 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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

In order to ensure that tap water is safe to drink, USEPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

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. USEPA/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. We 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

Rend Lake is utilized by the Rend Lake Intercity Water System (Facility # 0555100) to provide water to 67 communities in Williamson, White, Saline, Perry, Jefferson, Jackson, Hamilton and Franklin Counties. This facility draws water from Rend Lake through one surface water intake (IEPA #70290). The supply provides approximately 15 million gallons per day to 67 satellite supplies with an estimated population of 173,000 persons. Illinois EPA considers all surface water sources of public water supply to be susceptible to potential pollution problems. Hence the reason for mandatory treatment of all public water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration and disinfection. Primary sources of pollution in Illinois lakes can include agricultural runoff, land disposal (septic systems) and shoreline erosion. Our surface supply location is INTAKE (70290) REND LAKE SURFACE. We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. These meetings are on the 4th Monday of each month at our administration office located at 11231 Marcum Branch Rd., Benton, IL. The source water assessment for our supply has been completed by the Illinois EPA. If you would like to view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl.

2014 Regulated Contaminants Detected

Lead and Copper Date Sampled: 08/27/12

Definitions: Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALG's allow for a margin of safety.

Lead	Lead Action	Lead 90th	# Sites Over	Copper	Copper Action	Copper 90th	# Sites Over	Likely Source of Contamination	
MCLG	Level (AL)	Percentile	Lead AL	MCLG	Level (AL)	Percentile	Copper AL		
0	15 ppb	0	0	1.3 ppm	1.3 ppm	0	0	Corrosion of household plumbing systems; Erosion of natural deposits	

Water Quality Test Results

Definitions: The following tables contain scientific terms and measures, some of which may require explanation. Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the Maximum Contaminant Level Goal 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. MCLG's allow for a margin of safety. ppm: milligrams per liter or parts per million - or one ounce in 7,350,000 gallons of water. na: not applicable. Avg.: Regulatory compliance with some MCL's are based on running annual average of monthly samples. Maximum Residual Disinfectant Level (MRDL): The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants. Maximum Residual Disinfectant to control microbial contaminants.

Regulated Contaminants

Arsenic 2014 1 1.12-1.12 0 10 ppb No Erosion of natural deposits; Runoff from electron production wastes Fluoride 2014 0.9 8.76876 4 4 ppm No Erosion of natural deposits; Water additive which promotes strong teett Fertilizer discharge Nitrate (measured as Nitrogen) 2014 1.113 0.113-0.113 10 10 ppm No Erosion from fertilizer uses: Leaching from septic tanks, sewage: Erosion and stural deposits. Sodium 2014 21 20.6-20.6 ppm No Erosion from naturally occurring deposits: Radioactive Contaminants Collection Date Highest Level Detected Detected Range of Levels Detected Nacle McL Units Violation Likely Source Of Contaminant Likely Source Of Contaminant Likely Source Of Contaminant Likely Source Of Contaminant Detected Detected Detected Detected Detected Nacle McL Units Violation Likely Source Of Contaminant Likely Source Of Contaminant Likely Source Of Contaminant Likely Source Of Contaminant Detected Detected Detected Detected Nacle McL Units Violation Runoff from fertilizer used on row crops of Contaminant Detected Detected Detected Detected Nacle McL Units Violation Runoff from fertilizer used on row crops of Contaminant Detected Detected Detected Detected Nacle McL Units Violation Runoff from fertilizer used on row crops of Contaminant Detected Dete	ncgulated containmants														
Total Haloacetic Acids (HAAS) 2014 36 24.1-51.8 N/A 8						MCLG	MCL		Units	Violation		Likely Source Of Contaminant			
TithMomentanes] 2014 36 24.1-51.8 N/A 80 ppb No By-product of drinking water chlorination No By-product of dr	*Not all sample results may have been used for calculating the Highest level detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future.														
Trihalomethanes] 2014 3.52 2452 8.8 1 ppm No By-product of drinking water chlorination Chloratines 12-31-2014 2.9 2.0 - 3.0 MRDLG=4 MRDL=4 ppm No By-product of drinking water chlorination Chloraminants Collection Date Detected Detected Detected Detected Detected Date On a natural depositis. Fluoride 2014 1 1.12-1.12 0 10 ppm No Brown Discharge of drilling waster; Discharge from metal refineries; Erosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promotes strong teet Frosion of natural depositis; Water additive which promot	*Total Haloacetic Acids (HA	A5) 20	014	16	13.9-22.0	N/A	60	60		No I		By-product of drinking water chlorination			
Chloramines 12-31-2014 2.9 2.0 - 3.0 MRDLG=4 MRDL=4 ppm No Water additive used to control microbes Water additive used to control microbes Likely Source Of Contaminant Likely Source		20	014	36	24.1-51.8	N/A	80		ppb	No	o B	By-product of drinking water chlorination			
Collection Highest Level Range of Levels Detected Detect	Chlorite	20	014	.52	.2452	.8	1		ppm	No	о В	By-product of drinking water chlorination			
Date Detected Detected MCLG	Chloramines	12-31	1-2014	2.9	2.0 - 3.0	MRDLG=	4 MRDI	.=4	ppm N		o V	Water additive used to control microbes			
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Fluoride 2014 0.9 .876876 4 4 ppm No Erosion of natural deposits; Water additive which promotes strong teeth Fertilizer discharge Nitrate (measured as Nitrogen) 2014 .113 0.113-0.113 10 10 ppm No Runoff from Fertilizer uses: Leaching from septic tanks, sewage: Erosion natural deposits; Sodium 2014 21 20.6-20.6 ppm No Erosion from naturally occurring deposits: Radioactive Contaminants Collection Date Highest Level Detected Detected Detected NCLG MCL Units Violation Likely Source Of Contaminant Contaminants Collection Date Highest Level Detected Detected No Erosion from naturally occurring deposits: Likely Source Of Contaminant MCLG MCL Units Violation Likely Source Of Contaminant Likely Source Of Contaminant Atrazine 2014 .41 0-0.41 3 3 Ppb N Runoff from fertilizer used on row crops Turbidity Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality the effectiveness of our filtration system and disinfectants.	Barium	20:	014	0.0135	.01350135	2	2	ppm	opm No			Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits			
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Sodium 2014 21 20.6-20.6 ppm No Erosion from naturally occurring deposits: Radioactive Contaminants Collection Date Detected Det	Fluoride	20:	014	0.9	.876876	4	4	ppm	1			Erosion of natural deposits; Water additive which promotes strong teeth; Fertilizer discharge			
Radioactive Contaminants Collection Date Highest Level Detected Detected Detected Detected Range of Levels Detected NCLG MCL Units Violation Likely Source Of Contaminant Likely Source Of Contaminant Combined Radium 226/228 2014 .26 .2626 0 5 pCi/L No Erosion of naturally occurring deposits; Synthetic Organic Collection Date Highest Level Detected Range of Levels Detected MCLG MCL Units Violation Likely Source Of Contaminant Likely Source Of Contaminant Atrazine 2014 .41 0-0.41 3 3 Ppb N Runoff from fertilizer used on row crops Turbidity Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality the effectiveness of our filtration system and disinfectants.	Nitrate (measured as Nitrog	gen) 20:	014	.113	0.113-0.113	10	10	Ppm	1			Runoff from fertilizer uses: Leaching from septic tanks, sewage: Erosion of natural deposits.			
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Synthetic Organic Collection Date Contaminants Collection Date Detected Contaminant Contamin	Radioactive Contaminants Co			Collection Dat		el Ra			MC	LG M	CLUni	tsViolation		Likely Source Of Contaminant	
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the effectiveness of our filtration system and disinfectants.	Atrazine	2014	14 .41		0-0.41			3 :		Ppb		N Rur		noff from fertilizer used on row crops	
·	Turbidity Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.														
		Limit	Limit (Treatment Technique)						Violatio	n	Source				
99.19% 0.3 NTU No Soil Runoff		0.3 NTU						No Soil Runoff		Soil Runoff					

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violation sections.

Limit (Treatment Technique)

1 NTU

Violation

No

Source

Soil Runoff

VIOLATIONS: There were no violations this reporting period.

Highest Single Measurement

0.40