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, 2017

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 naturallyoccurring 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. 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. 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 Protection Efforts, you may access the Illinois EPA website at; http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl.

2017 Regulated Contaminants Detected Lead and Copper Date Sampled: 08/06/15

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 MCLG	Lead Action Level (AL)	Lead 90th Percentile	# Sites Over Lead AL	Copper MCLG	Copper Action Level (AL)	Copper 90th Percentile	# Sites Over Copper AL	Likely Source of Contamination
0	15 ppb	9.3 ppb	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 gallons of water. **ppb**: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water. **N/A**: not applicable. **Avg.**: Regulatory compliance with some MCL's is 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 Level Goal** (MRDLG): The level of disinfectant in drinking water below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Regulated Contaminants								
Disinfectants & Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant
*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.								
*Total Haloacetic Acids (HAA5)	2017	20	11.1-26.6	N/A	60	ppb	No	By-product of drinking water chlorination
<i>*TTHMs [Total Trihalomethanes]</i>	2017	32	6.3-42.6	N/A	80	ppb	No	By-product of drinking water chlorination
Chlorite	2017	.49	.1649	.8	1	ppm	No	By-product of drinking water chlorination
Chloramines	2017	3	2.7 - 3.1	MRDLG=4	MRDL=4	ppm	No	Water additive used to control microbes
Inorganic Contaminants	<i>Collection</i> <i>Date</i>	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant
Barium	2017	0.0301	.03010301	2	2	ppm	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Arsenic	2017	1	1.02-1.02	0	10	ppb	No	Erosion of natural deposits; Runoff from orchards; Runoff from electronics production wastes

Inorganic Contaminants (continued)	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Viola	ation	L	Likely Source Of Contaminant	
Fluoride 201.		0.7	.664664	4	4 ppm		N			ion of natural deposits; Water additive ch promotes strong teeth; Fertilizer or Aluminum Factory discharge	
Sodium 2017		23.2	23.2-23.2	ppm		N	No Erosion		from naturally occurring deposits:		
Radioactive Contaminants		Collection Date	Highest Leve Detected		nge of Levels Detected MCLG		G MCL	L Units	Violation	Likely Source Of Contaminant	
Combined Radium 226/228		01-16-2014	.26	.2626		0	5	pCi/L	No	Erosion of naturally occurring deposits;	
Synthetic Organic Contaminants Collection Date Highest Level Range of Levels Detected Detected MCLG MCL Units Violation Likely Source Of Contaminant											
Atrazine 2017 .37		.37	0-0.37 3 3 Ppb			b	N Runoff from fertilizer used on row crops				
		pidity is a measu icator of water qu								rticles. We monitor it because it is tants.	
Lowest Monthly % meeting limit			Limit (Treatment Technique)					Violation		Source	
99%			0.3 NTU					No		Soil Runoff	
Highest Single M	it	Limit (Treatment Technique)					Violation		Source		
0.87		1 NTU				No		10	Soil Runoff		
Total Organic Carbon		ntage of Total O requirements se								ne system met all TOC removal	
VIOLATIONS: There we	re no viola	tions this report	ing period.								