

Rend Lake Intercity Water System (IL0555100)

2024 Regulated Contaminants Detected

<i>Disinfectants & Disinfection By-Products</i>	<i>Collection Date</i>	<i>Highest Level Detected</i>	<i>Range of Levels Detected</i>	<i>MCLG</i>	<i>MCL</i>	<i>Units</i>	<i>Violation</i>	<i>Likely Source of Contamination</i>
<i>*Total Haloacetic Acids (HAA5)</i>	2024	26	10 – 37	N/A	60	ppb	No	By-product of drinking water chlorination
<i>*TTHMs [Total Trihalomethanes]</i>	2024	40	20.9 – 64	N/A	80	ppb	No	By-product of drinking water chlorination
<i>Chlorite</i>	2024	0.55	0.26 – 0.55	0.8	1	ppm	No	By-product of drinking water chlorination
<i>Chloramines</i>	2024	3.0	2.84 – 3.3	MRDLG=4	MRDL=4	ppm	No	Water additive used to control microbes
<i>Inorganic Contaminants</i>	<i>Collection Date</i>	<i>Highest Level Detected</i>	<i>Range of Levels Detected</i>	<i>MCLG</i>	<i>MCL</i>	<i>Units</i>	<i>Violation</i>	<i>Likely Source of Contamination</i>
<i>Barium</i>	2024	0.0116	0.0116 – 0.0116	2	2	ppm	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
<i>Arsenic</i>	2024	2	1.93 – 1.93	0	10	ppb	No	Erosion of natural deposits; Runoff from orchards; Runoff from electronics production wastes
<i>Fluoride</i>	2024	0.7	0.66 – 0.66	4	4	ppm	No	Erosion of natural deposits; Water additive which promotes strong teeth; Fertilizer or Aluminum Factory discharge
<i>Sodium</i>	2024	23	22.9 – 22.9			ppm	No	Erosion from naturally occurring deposits. Used in water softener regeneration
<i>The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old.</i>								
<i>Radioactive Contaminants</i>	<i>Collection Date</i>	<i>Highest Level Detected</i>	<i>Range of Levels Detected</i>	<i>MCLG</i>	<i>MCL</i>	<i>Units</i>	<i>Violation</i>	<i>Likely Source of Contamination</i>
<i>Combined Radium 226/228</i>	1/22/2020	0.86	0.86 - 0.86	0	5	pCi/L	No	Erosion of naturally occurring deposits
<i>Gross alpha excluding radon and uranium</i>	1/22/2020	0.12	0.12 – 0.12	0	15	pCi/L	No	Erosion of naturally occurring deposits

Definitions: The following tables contain scientific terms and measures, some of which may require explanation.

Avg.: Regulatory compliance with some MCL's is based on running annual average of monthly samples.

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.

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.

N/A: not applicable.

ND: Non-detect

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.

pCi/L: Picocuries per Liter (a measure of radioactivity)

Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

Turbidity

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.

NTU – Nephelometric Turbidity Units

	Limit (Treatment Technique)	Level Detected	Violation	Source
<i>Lowest monthly % meeting limit</i>	<i>0.3 NTU</i>	<i>99.5%</i>	<i>No</i>	<i>Soil runoff</i>
<i>Highest single measurement</i>	<i>1 NTU</i>	<i>0.44 NTU</i>	No	<i>Soil runoff</i>

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.

Violations

There were no violations for the community water system in 2024.