Annual Drinking Water Quality Report

NASON WATER SYSTEM

IL0810350

Annual Water Quality Report for the period of January 1 to December 31, 2024

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

The source of drinking water used by NASON WATER SYSTEM is Rend Lake Intercity Water System. 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 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 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.

Source Water Assessment

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, EPA 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).

The Nason Water System is a 3rd-tier customer of the Rend Lake Intercity Water System. Rend Lake is utilized by the Rend Lake Intercity Water System to provide water to 67 communities in Williamson, White, Saline, Perry, Jefferson, Jackson, Hamilton and Franklin Counties. 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.

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. 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

Source Water Information

Source Water Name: CC01 – Nason Master Meter FF IL0810400 CC01

Type of Water: Surface Water (SW)

Location: East side of the intersection of Peanut Rd. and County HWY 13, Nason

2024 Regulated Contaminants Detected

The next several tables summarize contaminants detected in your drinking water supply. Since water is purchased from Rend Lake Intercity Water System (IL0555100), results with an **asterisk (*)** were provided by them.

Lead and Copper

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. Rend Lake Intercity Water System is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact Rend Lake Intercity Water System at 618-439-4394. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available at: http://www.epa.gov/safewater/lead

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.

To obtain a copy of the system's lead tap sampling data, please call Tony Furlow, Water / Sewer Manager, at 618-439-4394 ext. 222.

Our community water supply has developed a service line material inventory. To obtain a copy of our service line inventory, please visit: <u>https://rendlake.org/wp-content/uploads/2024/08/IEPA-2024-Final-Material-Inventory-Nason.pdf</u>

Lead and Copper Results

Year Sampled: 2024 (Triennial)

Copper Range: <u>Non-detect (ND)</u> to <u>0.071 ppm</u> Lead Range: All samples were <u>Non-detect (ND)</u>

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	0 ppb	0	1.3 ppm	1.3 ppm	0.067 ppm	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. **pCi/L:** Picocuries per Liter (a measure of radioactivity)

Regulated Contaminants

Disinfectants & Disinfection By- Products	<i>Collection</i> <i>Date</i>	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant			
*Rend Lake Intercity Water System Data											
Total Haloacetic Acids (HAA5)*	2024	26	10 - 37	N/A	60	ppb	No	By-product of drinking water chlorination			
Total Trihalomethanes (TTHM) *	2024	40	20.9 - 64	N/A	80	ppb	No	By-product of drinking water chlorination			
Chlorite*	2024	0.55	0.26 - 0.55	0.8	1	ppm	No	By-product of drinking water chlorination			
Chloramines*	2024	3.0	2.84 - 3.3	MRDLG=4	MRDL=4	ppm	No	Water additive used to control microbes			
Chloramines (Nason)	2024	2.6	1.9 - 3.01	MRDLG=4	MRDL=4	ppm	No	Water additive used to control microbes			
Total Haloacetic Acids (HAA5) (Nason)	2024	40	40 - 40	N/A	60	ppb	No	By-product of drinking water chlorination			
Total Trihalomethanes (TTHM) (Nason)	2024	74	73.8 - 73.8	N/A	80	ppb	No	By-product of drinking water chlorination			
Inorganic Contaminants	<i>Collection</i> <i>Date</i>	Highest Level Detected	Range of Levels Detected	6 MCLG	MCL	Units	Violation	Likely Source Of Contaminant			
Barium*	2024	0.0116	0.0116 - 0.0116	2	2	ppm	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits			
Arsenic*	2024	2	1.93 - 1.93	0	10	ppb	No	Erosion of natural deposits; Runoff from orchards; Runoff from electronics production wastes			

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant
Fluoride*	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
Sodium*	2024	23	22900 – 22900			ppm	No	Erosion from naturally occurring deposits. Used in water softener regeneration

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.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source Of Contaminant
Combined Radium 226/228*	1/22/2020	0.86	0.86 - 0.86	0	5	pCi/L	No	Erosion of naturally occurring deposits
Gross alpha excluding radon and uranium*	1/22/2020	0.12	0.12 - 0.12	0	15	pCi/L	No	Erosion of naturally occurring deposits

Turbidity (Rend Lake System Data)

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		
Lowest monthly % meeting limit	0.3 NTU	99.5%	No	Soil runoff		
Highest single measurement	1 NTU	0.44 NTU	No	Soil runoff		

Violations

There were no violations for Nason Water System in 2024.