MUNICIPAL UTILITIES
CITY OF JACKSONVILLE
200 W. Douglas
Jacksonville, IL 62650

MUNICIPAL UTILITIES



2023 Water Quality Report

City of Jacksonville IL1370200

For more information regarding this report, contact:
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(217)479-4660 www.jacksonvilleil.gov This report is intended to provide you with important information about your drinking water (for January 1 to December 31, 2023) and the efforts made by the City of Jacksonville water system to provide safe drinking water.

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

SOURCE WATER ASSESSMENT

A Source Water Assessment Fact Sheet has been prepared by the Illinois EPA in cooperation with the US Geological Survey for the City of Jacksonville. The source of drinking water used by the City of Jacksonville is ground water under the direct influence of surface water.

Drinking water for the City of Jacksonville is supplied by the Jacksonville community water supply (CWS). Two lakes and three wells act as the source of this drinking water.

Illinois EPA considers all surface water sources of community water supplies to be susceptible to potential pollution problems; hence, the reason for mandatory treatment for all surface water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration, and disinfection. Causes of pollution to the lake include nutrients, siltation, suspended solids, and organic enrichment. Primary sources of pollution include agricultural runoff, land disposal (septic systems), and shoreline erosion.

Potential sources of contamination are also located near the well sites. Due to the presence of potential sources and the unconfined nature of the wells, Illinois EPA considers these wells to be susceptible to contamination. The Illinois EPA provides minimum protection zones of 400 feet for Jacksonville's wells. In 1991, the City of Jacksonville enacted a Maximum Setback Zone Ordinance providing for additional protection out to a distance of 2,500 feet from the wellhead.

WHAT ELSE SHOULD I KNOW?

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.

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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

CHARACTERISTICS OF 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:

- <u>Microbial contaminants</u>, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife:
- <u>Inorganic contaminants</u>, such as salts and metals, which may be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming;
- <u>Pesticides and herbicides</u>, 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff and septic systems; and
- <u>Radioactive contaminants</u>, which may be naturally occurring or be the result of oil and gas production and mining activities.

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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

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JACKSONVILLE, IL

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CL - Coliform								
CL - Comorm	MCLG	Total Coliform Maximum Contaminant Level		Highest Number of Positive	MCL- Fecal Coli- form or E-Coli	Violation ?	Total # Positive E-Coli or Fecal Coliform Samples	Likely Source of Contaminant Naturally present in the environment
onthly Samples	0							
ead & Copper (Collection Date 08/01/2	023)							
au a copper (conection bate corona	Lead Action	90th	# Sites Over	MCLG	Units	Violation ?	Likely Source of Contamination	
	Level (AL)	Percentile	(AL)					
ead **	15	0	0	0	ug/L	No	Corrosion of household plumbing systems; Erosion of natural deposits	
opper **	1.3	0,0047	0	1.3	ppm	No	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems om materials and components associated with service lines and home plumbing.	
ne City of Jacksonville is responsible for ad in your home plumbing. You can tak nower, doing laundry or a load of dishes.	providing high quality of e responsibility by ident You can also use a file	drinking water and rem tifying and removing le ter certified by an Ame	noving lead pipes, ead materials within erican National Sta	but cannot control the n your home plumbir indards Institute acci	ne variety of materials ng and taking steps to redited certifier to red	s used in plum o reduce your duce lead in yo osure is availa	bing components in your home. You s family's risk. Before drinking tap wate our drinking water. If you are concerne	share the responsibility for protecting yourself and your family from the er, flush your pipes for several minutes by running your tap, taking a ed about lead in your water, you may wish to have your water ine or at http://www.epa.gov/safewater/lead.
	Detected	Levels Detected	Measurement					
ome contaminants may include raw water		backup wells.						
sinfectants & Disinfection By-Produc								
ee Chlorine	1.2	0-2	ppm	MRDLG = 4	MRDL=4 60	No	Water additive used to control microbes	
aloacetic Acids (HAA5) otal Trihalomethanes (TTHM)	67	12.1 - 23.6 41 - 82.6	ppb	No goal for total No goal for total	80	No No	By-product of drinking water disinfection By-product of drinking water disinfection	
organic Contaminants (Sodium is								CUOTI
arium	0.011	0.011 - 0.011	ppm	2	2	No		rge from metal refineries; Erosion of natural deposits
uoride	0.6	0.57 - 0.57	ppm	4	4	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories	
trate(measured as Nitrogen)	1	1.4 - 1.4	ppm	10	10	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	
odium	35	35 - 35	ppm			No		s; used in water softener regeneration
otal Organic Carbon								OC violation is noted in the violations section.
2021, our Public Water Supply was san lyisories visit http://www2.illinois.gov/epa				n. Eighteen PFAS	compounds were sar	mpled, and no	ne were detected in our finished drinki	ng water. For more information about PFAS health
irbidity	Limit (Treatment	Level Detected	Violation	Likely Source of	Marian Company			
in Diality	Technique)	Level Bettedted	Violadon	Contamination				
west monthly % meeting limit	0.3 NTU	100%	No	Soil Runoff	Turbidity is a measu	Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of		
ghest single measurement	1 NTU	0.091 NTU	No	Soil Runoff	water quality and the effectiveness of our filtration system and disinfectants.			
	ED SOURCE WATER			AND DESCRIPTION				
ombined Radium 226/228 ample date 04/06/23)	1.71	1.31 - 1.71	pCi/L	0	5	No	Erosion of natural deposits	
ross Alpha (Excluding Radon Uranium) (sample date 04/06/23)	3.67	0 - 3.67	pCi/L	0	15 No Erosion of natural deposits			
usceptibility to Contamination Determination Course Water Information - Intake (52123). The state requires us to monitor for certifinitions: The following tables contagg: Regulatory compliance with some Nevel 1 Assessment: A study of the water wel 2 Assessment: A very detailed studion Level (AL): The concentration of cition Level Goal (ALG): The level of a aximum Contaminant Level (MCL):	tion; and documentation cake Mauvaisterre Intain contaminants less the in scientific terms and in scientific terms and in scientific terms and in scientific terms and in system to identify pot dy of the water system a contaminant which, if contaminant in drinking the highest level of a co	n/recommendation of ake, Water type SW, han once per year bed measures, some of hing annual average of ential problems and do identify potential professore to identify potential professore water below which the traminant that is allow	Source Water Pro Report Status good ause the concentred which may requi- f monthly samples etermine (if possible) beliems and determinatment or other re- lere is no known of yed in drinking water	tection Efforts, you not go for the secondarie explanation. NTU: The amount let why total coliform inter (if possible) why total coliform inter (if possible) why quirements which a rexpected risk to he er. MCLs are set as	may access the Illinoi Vell (52120) Local #1 aminants do not char t of turbidity in a wate t bacteria have been an E.Coli MCL viola water system must ficatth. ALGs allow for close to the MCLGs	is EPA website, 2,3 Ranney Conge frequently. er sample as in found in our wartion has occur ollow. pci/L: a margin of sea as feasible us	e at http://www.epa.state.il.us/cgi-bin/v collector Well, IL River, Water type GU Some of our data, though accurate, i neasured by a nephelometric turbidime vater system. red and/or why total coliform bacteria Picocuries per liter - a measure of radiafety. mrem: millirems per year (a me	have been found in our water system on multiple occasions. ioactivity. easure of radiation absorbed by the body)