# **Annual Drinking Water Quality Report — Breese**

IL0270250

ual Water Quality Report for the period of ember 31, 2020

This report is intended to provide you with import information about your drinking water and the effo by the water system to provide safe drinking water

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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 Water Assessment
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.
City Council meetings are held on the first and third Tuesday of every month at Breese City Hall, 500 N. First St., Breese, IL 62230. The source water assessment for our suppl
has been completed by the Illinois EFA. The Consumer Confidence Report will not be mailed out, it is available at Breese City Hall, 500 N. First St., Breese, IL 62230. The
would like a copy of this information, please stop by City Hall or call our water operator at (618) 526-7151 (618) 526-8486. 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 EFA website at http://www.eps.state.il.us/cgi-bin/wp/swap-fact-sheets.pl.
Source of Mater: RERESEININGINGS EFA considers all surface water sources of community water supply to be susceptible to potential pollution problems, hence,
the reason for mandatory treatment for all surface water sources of community water supply to be susceptible to potential pollution filtration, and
disinfection. In addition, agricultural runoff within the Middle Kaskaskia River Basin contributes to the susceptibility of the Breese intakes.

### Lead and Copper

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2020	1.3	1.3	0.084	0	ppm		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

### Water Ouality Test Results

A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system. A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

systems on multiple occasions.
The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow

Maximum residual disinfectant level or The highest level of a 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 or MRDLG:

micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water. milligrams per liter or parts per million - or one ounce in 7,350 gallons of water. A required process intended to reduce the level of a contaminant in drinking water.

Disinfectants and Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	12/31/2020	2	1.7 - 2	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2020	41	23.3 - 54	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2020	60	33.7 - 84.9	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2020	0.05	0.05 - 0.05	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2020	0.8	0.751 - 0.751	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Manganese	2020	2	2.3 - 2.3	150	150	ppb	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Nitrate [measured as Nitrogen]	2020	0.04	0.04 - 0.04	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Sodium	2020	24	24 - 24			ppm	N	Erosion from naturally occuring deposits. Used in water softener regeneration.
Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Atrazine	2020	0.63	0 - 0.63	3	3	ppb	N	Runoff from herbicide used on row crops.

## Turbidity

Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination

Highest single measurement	0.5 NTU	0.071 NTU	N	Soil runoff.
Lowest monthly % meeting limit	0.2 NTU	100%	N	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 violations section.