

# Annual Drinking Water Quality Report

## MACON IL1150250

Annual Water Quality Report for the period of January 1 to December 31, 2025.

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

The source of drinking water used by MACON is Ground Water.

For more information regarding this report contact:

Charlie Dunmire  
217-764-3653

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 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:

- 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 can also 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, 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.

Immuno-compromised 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. EPA/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

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 IEPA. If you would like a copy of this information, please stop by City Hall during regular business hours or call our operator at 217-764-3653. 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>.

To determine Macon's susceptibility to contamination, a Well Site Survey, published in 1989 by the Illinois EPA, and a Groundwater Recharge Protection Area Guidance Document were reviewed. Based on the information obtained in these documents, there were several potential sources of contamination that could pose a hazard to groundwater utilized by the Macon community water supply wells. Based on information provided by the City of Macon, there are five sites that contained underground storage fuel tanks that have had the tanks successfully removed. Well #2 is a confined well therefore it is not susceptible to SOC and VOC contamination. Wells #4, #5, and #6 are susceptible to SOC and VOC contamination although detection of any quantifiable levels in the water has not occurred. The SOC and VOC susceptibility determination is based on the location of land use within the recharge areas of the wells (see Potential Sources of Contamination section). These three wells are also susceptible to IOC contamination due to the close proximity of the hog confinement site. In addition, as a result of monitoring conducted at the wells and entry point to the distribution system, the land use activities, and source water protection initiatives by the city (refer to the following section of this report), well #2 is not susceptible to IOC contamination.

Due to favorable monitoring history, aquifer characteristics, and inventory of potential sources of contamination, our water supply was issued a vulnerability waiver renewal. VOCs are monitored once every 6 years and SOCs once every 9 years. We monitored in 2020 and had no detections.

### SOURCE WATER INFORMATION

SOURCE WATER NAME	TYPE OF WATER	REPORT STATUS	LOCATION
WELL 6 (01168)	GW	ACTIVE	¼ MILE SOUTH OF WELL # 7
WELL 7 (02027)	GW	ACTIVE	1.25 MILE WEST OF TOWN AT CORNER

## 2025 Regulated Contaminants Detected

### Lead and Copper

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Lead	9/26/2023	0	15	2.2	1	ppb	N	Erosion of natural deposits; Corrosion of household plumbing systems.
Copper	9/26/2023	1.3	1.3	1.3	1	ppm	N	Erosion of natural deposits; Corrosion of household plumbing systems.

**Copper Range: 0.23 to 1.4 ppm**

**Lead Range: <1.0 to 22 ppb**

To obtain a copy of the system's lead tap sampling data: Contact City Hall at (217) 764-3643

Our Community Water Supply has developed a service line material inventory. To obtain a copy of the system's service line inventory: Contact City Hall at (217) 764-3643

### Water Quality Test Results

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

Avg	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
Level 1 Assessment	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.
Level 2 Assessment	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.
Maximum Contaminant Level Goal or MCLG	The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
Maximum Contaminant Level or MCL	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.
Maximum residual disinfectant level goal or MRDLG	The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
Maximum residual disinfectant level or MRDL	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.
ppb	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
na	not applicable.
ppm	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
mrem	millirems per year (a measure of radiation absorbed by the body)
Treatment Technique or TT	A required process intended to reduce the level of a contaminant in drinking water.

## Regulated Contaminants

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	2025	1.2	0.72 - 1.56	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids HAA5	2025	27	13.3 – 26.5	No goal for the total	60	ppb	N	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)	2025	66	32.8 – 65.9	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	11/13/2024	0.026	0.026 - 0.026	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	11/13/2024	0.659	0.659 - 0.659	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2025	2	1.6 – 1.6	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Sodium	11/13/2024	130	130 – 130	n/a	n/a	ppb	N	Erosion from naturally occurring deposits: Used in water softener regeneration.

