



# CITY OF BOSSIER CITY

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April 25, 2025

To: Citizens of Bossier City

Subject: The Water We Drink: City of Bossier City Water System  
Public Water Supply ID. 1015004

## *Annual Water Quality Report – Year 2024*

We are pleased to present to you the Annual Water Quality Report for the year 2024. Our water system received a grade of “A” from the Louisiana Department of Health. Our water system report card can be found at [www.ldh.la.gov/watergrade](http://www.ldh.la.gov/watergrade).

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply, we sometimes need to make improvements that will benefit all of our customers. We work around the clock to provide top quality drinking water to every tap. We also ask that all of our customers help us protect and conserve our water sources, which are the heart of our community, our way of life, and our children’s future. This report is designed to inform you about the quality of your water and the services we deliver to you every day (Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien). Our water sources(s) are listed in the table below:

Source Name	Source Water Type	Source Water Body Name
Red River Surface Water Intake	Surface Water	Red River
Raw Water Storage Reservoir	Surface Water	

Our constant goal is to provide you with a safe and dependable supply of drinking water, improve the water treatment process and protect our natural water resources. We are committed to ensuring the quality of your water. The U.S. Environmental Protection Agency (USEPA) has determined that water samples taken by the State Department of Health, during the 2024 calendar year, indicate that we meet or exceed all Federal and State Regulations for drinking water standards. Our drinking water is safe. **There were no contaminants detected above their action levels during the 2024 monitoring cycle.**

Please note that all drinking water, including bottled water, may reasonably be expected to contain at least some small amounts of contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. 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 effects in all age groups, especially for pregnant women, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from

materials and components associated with service lines and home plumbing. The City of Bossier City Water System is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. The City of Bossier City 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 the City of Bossier City Water System at 318-741-8501. 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>. The City of Bossier City's interactive lead service line inventory map can be found at <https://pws-ptd.120wateraudit.com/bossiercity>.

The Maximum Contamination Level (MCL), as shown in the enclosed tables, is set at very stringent levels. To understand the possible health effects described, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect. In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the number of certain contaminants in water provided by public water systems. In addition, the Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Although all Halo acetic acid (HAA5) levels detected within our water system were well below the established MCL for this disinfection byproduct, some people who drink water containing HAA5s in excess of the MCL over many years may have an increased risk of getting cancer. Additionally, even though all trihalomethanes (THM) levels within our water system were also well below the established MCL for this constituent, certain people who drink water containing THMs in excess of the associated MCL over many years may experience problems within their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

A Source Water Assessment Plan (SWAP) is available from our office. This plan is an assessment of a delineated area around our listed sources through which contaminants, if present, could migrate and reach our source water. It also includes an inventory of potential sources of contamination within the delineated area and a determination of the water supply's susceptibility to contamination by the identified potential sources. It also includes an inventory of potential sources of contamination within the delineated area, and a determination of the water supply's susceptibility to contamination by the identified potential sources. According to the Source Water Assessment Plan, our water system had a susceptibility rating of 'HIGH.' As such, the City of Bossier Water System includes system redundancies, including a 700-million-gallon reservoir to protect against this risk. If you would like to review the Source Water Assessment Plan, please feel free to contact our office. We ask that all our citizens help us protect our water resources to ensure that we continue to have an adequate, reliable and safe water supply in years to come.

As a reminder, after hours emergency water or wastewater repairs can be reported by calling (318) 741-8466.

Sincerely,



Hon. Thomas H. Chandler  
Mayor, City of Bossier City

Attachments (2)  
Definitions/Tables

## DEFINITIONS FOR TABLES

**Action Level (AL)** - Detection of a constituent in drinking water which concentration equals or exceeds 50% of the HA, MCL, or SMCL and indicates need for further action such as increased monitoring.

**Parts per million (ppm) or Milligrams per liter (mg/L)** – One part per million corresponds to one minute in two years or a single penny in \$10,000.

**Parts per billion (ppb) or Micrograms per liter (ug/L)** – One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

**Picocuries per liter (pCi/L)** – Picocuries per liter is a measure of the radioactivity in water.

**Nephelometric Turbidity Unit (NTU) and/or (Turbidity)** – Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. It is a good indicator of the effectiveness of drinking water filtration systems. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth.

**Treatment Technique (TT)** – An enforceable procedure or level of technological performance which public water systems must follow to ensure control of a contaminant.

**Coliform** - Bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present.

**Chloramines - Disinfectants** used to treat drinking water. They are most commonly formed when ammonia is added to chlorine to treat drinking water. Chloramines provide longer-lasting disinfection as the water moves through pipes to consumers. The Centers for Disease Control and Prevention denote that current studies indicate that using or drinking water with small amounts of chloramine does not cause harmful health effects and provides protection against waterborne disease outbreaks. These studies reported no observed health effects from drinking water with chloramine levels of less than 50 ppm in drinking water.

**Fecal Coliform and E Coli**- Bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some elderly people with severely compromised immune systems.

**Maximum residual disinfectant level (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.

**Action Level (AL)** – The concentration of a contaminant that, if exceeded, triggers treatment process or other requirements that a water system must follow.

**Maximum contamination level (MCL)** – The “Maximum Allowed” MCL is the highest level of a contaminant that is allowed in drinking water. MCL’s are set as close to the MCLG’s as feasible using the best available treatment technology.

**Maximum contaminant level goal (MCLG)** – The “Goal” is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLG’s allow for a margin of safety.

**Maximum residual disinfectant level goal (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.

**Level 1 assessment** – 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 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.

**Standard Unit (SU) & pH** – pH is measured on logarithmic scale, ranging from 0 to 14 SU, with 7 SU being a neutral ph.

**Fluoride** – A compound containing fluorine and another element or radical. It is typically added in drinking water supplies to promote healthy teeth.

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 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 stormwater 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 stormwater 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 stormwater runoff, and septic systems.

**Radioactive Contaminants** – which can be naturally-occurring or be the result of oil and gas production and mining activities.

The following tables show the results of all monitoring during the period of January 1st to December 31st, 2024:

Compliance Period	Analyte	Type
<b>No Violations Occurred in the Calendar Year of 2024.</b>		

The Louisiana Department of Health - Office of Public Health routinely monitors samples and tests for constituents in your drinking water according to Federal and State laws. Our water system personal work in coalition with our State Regulatory Agency to ensure that a minimum of 80 water samples per month are analyzed accordance with the Total Coliform Rule for microbiological contaminants. Our water system personnel also collect disinfectant residuals at the Water Plant and throughout the City’s water distribution system to ensure prevention and control of microbial growth.

Disinfectant	Period	Highest RAA	Unit	Range	MRDL or MCL	MRDLG or MCLG	Typical Source
Chloramine	2024	3.1	ppm	0.8 – 3.98	4	4	Disinfectant used to control microbes.

*\*The values in the “Result” column represent the highest running annual arithmetic average, computed quarterly, of monthly samples. Some people who drink water containing bromate in excess of the MCL over many years may have an increased risk of getting cancer.*

In the tables below, we have shown the regulated contaminants that were detected during the monitoring period beginning January 1, 2024, through December 31, 2024, or from the latest historical period in which the contaminate sampling data was available. All contaminants were **BELOW** their associated maximum contaminant levels. Numerous samples are collected from our raw water source, the treatment plant and the distribution system. As such, some results could be lower at the consumer tap.

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Sources
Arsenic	07/14/2024	1.1	0 – 1.1	ppb	10	0	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Fluoride	01/21/2024	0.5	0.5	ppm	4	4	Ordinary erosion of natural deposits and discharge from fertilizer and aluminum factories.
Hexachlorocyclop Ebtaduene	08/12/2024	0.091	0 -0.091	ppb	50	50	Discharge from chemical factories.
Nitrate-Nitrite	01/21/2024	0.2	0..2	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks; Erosion of natural deposits.
Atrazine	08/12/2024	0.025	0 - 0.025	ppb	3	3	Runoff from herbicide used on row crops.
Dalapon	08/12/2024	2.2	0- 2.2	ppb	200	200	Herbicide Runoff.
Turbidity	03/04/2024	0.10	0.03 -0.10	NTU	0.3	N/A	Soul Runoff.

NOTE: Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. The major sources of turbidity include soil runoff. *\*No turbidity levels exceeded the maximum contaminate level during 2024, therefore the Treatment Technique (TT) Value was 100% throughout 2024.*

Lead and Copper	Date	90 <sup>th</sup> Percentile	Range	Unit	AL	Sites > AL	Typical Source
Copper, Free	2019 - 2022	0.6	0 – 0.9	ppm	1.3	0	Corrosion of household piping; Erosion of natural deposits. Leaching from wood preservatives.
Lead	2019 -2022	0	1 - 3	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits

*\*The 90<sup>th</sup> percentiles for copper and lead cannot exceed 1.3 ppm and 15 ppb, respectively.*

Bossier City Water Treatment Plant  
Annual Water Quality Report (Continued) – Year 2024

Disinfection/ By-products	Sample Point	Period	Highest LRAA	Range	Unit	MCL	MCLG	Typical Source
Total Haloacetic Acids (HAA5)	1401 Hamilton	2023 - 24	12	7.6–16.9	ppb	60	0	By-product of drinking water disinfection.
Total Haloacetic Acids (HAA5)	N Willow @ Airline	2023 - 24	15	7.8–15.8	ppb	60	0	By-product of drinking water disinfection.
Total Haloacetic Acids (HAA5)	2007 Wakefield	2023 - 24	15	7.6–17.1	ppb	60	0	By-product of drinking water disinfection.
Total Haloacetic Acids (HAA5)	3009 Donald	2023 - 24	16	10.8 - 16	ppb	60	0	By-product of drinking water disinfection.
Total Haloacetic Acids (HAA5)	2200 Landau	2023 - 24	14	9 – 15.6	ppb	60	0	By-product of drinking water disinfection.
Total Haloacetic Acids (HAA5)	Hwy 80 @ SWEPCO Pole #79	2023 - 24	14	8.2–18.5	ppb	60	0	By-product of drinking water disinfection.
Total Haloacetic Acids (HAA5)	2223 Kirby Smith	2023 - 24	13	9.1 – 17	ppb	60	0	By-product of drinking water disinfection.
Total Haloacetic Acids (HAA5)	Barksdale @ RR WWTP	2023 - 24	12	8.7 –16.4	ppb	60	0	By-product of drinking water disinfection.
TTHM	1401 Hamilton	2023 - 24	17	10.9–21.6	ppb	80	0	By-product of drinking water chlorination.
TTHM	N Willow @ Airline	2023 - 24	18	11.9–24.3	ppb	80	0	By-product of drinking water chlorination.
TTHM	2007 Wakefield	2023 - 24	17	9 – 23.9	ppb	80	0	By-product of drinking water chlorination.
TTHM	3009 Donald	2023 - 24	21	12.3–30.4	ppb	80	0	By-product of drinking water chlorination.
TTHM	2200 Landau	2023 - 24	20	11.5–26.9	ppb	80	0	By-product of drinking water chlorination.
TTHM	Hwy 80 @ SWEPCO Pole #79	2023 - 24	19	10.2–24.1	ppb	80	0	By-product of drinking water chlorination.
TTHM	2223 Kirby Smith	2023 - 24	19	11.1–24.9	ppb	80	0	By-product of drinking water chlorination.
TTHM	Barksdale @ RR WWTP	2023 - 24	19	11.9–24.3	ppb	80	0	By-product of drinking water chlorination.

\*The values in the "Highest LRAA" column represent the highest locational running annual average

Secondary Contaminants	Collection Date	Highest Value	Range	Unit	SMCL
Chloride	01/21/2024	24	24	MG/L	250
Aluminum	07/14/2024	0.05	0.04 - 0.05	MG/L	0.2
pH	01/21/2024	6.6	6.6	pH	8.5
Manganese	07/14/2024	0.03	0– 0.03	MG/L	0.05
Iron	08/12/2024	0.05	0.02 – 0.05	MG/L	0.3
Hardness, Total (As CaCO3)	07/14/2024	90.4	67.7 - 90.4	MG/L	0
Potassium	07/14/2024	3.8	3.2 – 3.8	MG/L	0
Sodium	07/14/2024	43.2	23.2 – 43.2	MG/L	0
Sulfate	01/21/2024	23	23	MG/L	250