

# 2023 Annual Drinking Water Quality Report

(Consumer Confidence Report)

City of Carthage
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903-693-5616

Special Notice - Required language for ALL community public water supplies: You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly or immune-compromised persons such as those undergoing chemotherapy for cancer; those who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

#### **Our Drinking Water is Regulated**

This report is a summary of the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S., Environmental Protection agency (EPA) required tests and is presented in the attached pages. We hope this information helps you become more knowledgeable about what's in your drinking water.

Sources 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 and 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 before treatment 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.
- -Radioactive contaminants which can be naturally occurring or be the result of oil and gas production and mining activities.
- -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.

### En Español

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre este informe en español, favor de llamar al teléfono (903) 693-5616 para hablar con una persona bilingüe en español.

### Where do we get our drinking water?

Our drinking water is obtained from SURFACE and GROUND water sources. It comes from the following Lake/River/Reservoir/Aquifer: LAKE MURVAUL, WILCOX AQUIFER. A Source Water Susceptibility Assessment of your drinking water sources is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment allows us to focus our source water protection strategies. Some of this source water assessment information will be available later this year on Texas Drinking Water Watch at http://dww,tceq.state.tx.us/DWW/. For more information on source water assessments and protection efforts at our system, please contact us.

### All Drinking water may contain contaminants:

When drinking water meets federal standards there may not be any health-based benefits to purchasing bottled water or point of use devices. 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 (800-426-4791).

### Public Participation Opportunities

City Council meetings are held at City of Carthage offices located at 812 W Panola on the second and fourth Mondays at 5:00 PM. Telephone inquiries are welcome. Contact Byron Roberts at (903) 693-5616. To learn about future public meeting (concerning your drinking water), or to request to schedule one, please call us.

### Secondary Constituents

Many constituents (such as calcium, sodium, or iron), which are often found in drinking water, can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not EPA. These constituents are not cause for health concerns. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

### Required Additional Health Information for Lead:

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. This water supply is responsible for providing high quality drinking water but 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.

# **Definitions and Abbreviations**

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

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A chiana Lavral	The concentration of a contaminant which, if exceeded, triggers
Action Level	treatment or other requirements which a water system must use.
Ava	Regulatory compliance with some MCLs are based on running annual average of monthly samples
Avg	A study of the water system to identify potential problems and
	determine (if possible) why total coliform bacteria have been
Level 1 Assessment	found in our water system.
Level 1763e33mene	Tourid in our water system.
	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
Level 2 Assessment	in our water system on multiple occasions
	Highest level of contaminant that is allowed in drinking water.
	MCLs are set as close to the MCLG as feasible using the best
Maximum Contaminant Level or MCL	available treatment technology
	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
Maximum Contaminant Goal or MCLG	safety
	Highest level of a disinfectant allowed in drinking water. There is
Maximum residual disinfectant level or	convincing evidence that addition of a disinfectant is necessary for
MRDL	control of microbial contaminants.
	Level of a drinking water disinfectant below which there is no
	known or expected risk to health. MRDLGs do not reflect the
Maximum residual disinfectant level goal or	benefits of the use of disinfectants to control microbial
MRDLG	contaminants
MFL	million fibers per liter (a measure of asbestos)
mrem	millirems per year (a measure of radiation absorbed by the body)
na	not applicable
NTU	nephelometric turbidity units (a measure of turbidity)
pCi/L	picocuries per liter (a measure of radioactivity)
ppb	parts per billion, or micrograms per liter
ppm	parts per million, milligrams per liter
ppq	parts per quadrillion, or picograms per liter (pg/L)
ppt	parts per trillion, or nanograms per liter (ng/L)
	Required process intended to reduce the level of a contaminant in
Treatment Technique or TT	drinking water

### Information about Source Water

TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact [insert water system contact][903-693-5616]

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/24/2023	1.3	1.3	0.167	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing

# **2023 Water Quality Test Results**

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2023	71	17.2 - 114	No goal for the total	60	ppb	Y	By-product of drinking water disinfection.

<sup>\*</sup>The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year

To	otal Trihalomethanes (TTHM)	2023	81	15.8 - 120	No goal for the total	80	ppb	γ	By-product of drinking water disinfection.	

<sup>\*</sup>The value in the Highest Level or Average Detected column is the highest average of all ITHM sample results collected at a location over a year

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	- Violation	Likely Source of Contamination
Barium	2023	0.037	0.037 - 0.037	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2023	148	148 - 148	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2023	0.1	0.0707 - 0.0707	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]	2023	0.208	0.208 - 0.208	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks sewage; Erosion of natural deposits.
Nitrite [measured as Nitrogen]	08/22/2022	0.16	0.16 - 0.16	1	1	ppm	N	Runoff from fertilizer use; Leaching from septic tanks sewage; Erosion of natural deposits.

## **Disinfectant Residual**

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chloramines	2023	3.68	.0-4.0	4	4	ppm	ppm	Water additive used to control microbes.

# **Turbidity**

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	Level Detected	Limit (Treatment	Violation	Likely Source of Contamination	
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### MAXT

Highest single measurement	0.33 NTU	1 NTU	N	Soil runoff.
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.

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.

### **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.

### **Violations**

## Haloacetic Acids (HAA5)

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Violation Type	Violation Begin	Violation End	Violation Explanation
MCL, LRAA	01/01/2023		Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.
MCL, LRAA	04/01/2023	06/30/2023	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.

### **Public Notification Rule**

The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency).

Violation Type	Violation Begin	Violation End	Violation Explanation
PUBLIC NOTICE RULE LINKED TO VIOLATION	04/09/2023	05/08/2023	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.
PUBLIC NOTICE RULE LINKED TO VIOLATION	08/25/2023	2023	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.

### Total Trihalomethanes (TTHM)

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Violation Type	Violation Begin	Violation End	Violation Explanation
Violations			
MCL LRAA	01/01/2023	03/31/2023	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum)

contaminant level and abbreviated MCL) for the period indicated.