

2024 Consumer Confidence Report for Public Water System RED RIVER COUNTY WSC

This is your water quality report for January 1 to December 31, 2024

RED RIVER COUNTY WSC provides surface water and ground water from the Blossom Sand and Nacatoch Aquifers in Red River County.

For more information regarding this report contact:

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Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono 903-427-2891

Definitions and Abbreviations

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The following tables contain scientific terms and measures, some of which may require explanation.

Action Level:

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

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 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 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 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.

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.

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)

Definitions and Abbreviations

ppb:	micrograms per liter or parts per billion
ppm:	milligrams per liter or parts per million
ppq	parts per quadrillion, or picograms per liter (pg/L)
ppt	parts per trillion, or nanograms per liter (ng/L)
Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water.

Information about your 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.

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 EPAs Safe Drinking Water Hotline at (800) 426-4791.

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.

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.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons 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).

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 are responsible for providing high quality drinking water, but 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>.

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][insert phone number]**

Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 positive monthly sample.	1		0	N	Naturally present in the environment.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2024	1.3	1.3	0.119	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

2024 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)	2024	7	1.6 - 5.6	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

*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

Total Trihalomethanes (TTHM)	2024	40	9.98 - 41.1	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
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*The value in the Highest Level or Average Detected column is the highest average of all TTHM 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	11/13/2023	0.0082	0.0082 - 0.0082	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	11/13/2023	1.2	1.2 - 1.2	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride	11/13/2023	0.708	0.146 - 0.708	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]	2024	0.0955	0.0159 - 0.0955	10	10	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
Free	2024	1.90	.3-3.9	4	4	ppm	N	Water additive used to control microbes.

Violations

Lead and Copper Rule

The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

Violation Type	Violation Begin	Violation End	Violation Explanation
LEAD CONSUMER NOTICE (LCR)	12/30/2024	02/11/2025	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.

Lamar County Water Supply
PWS ID # 1390015
Constituents Detected In Treated Water Leaving the WTP
2024

<u>Regulated Contaminants</u>	<u>Levels</u>	<u>Unit Abbrev.</u>	<u>Units</u>	<u>MCL</u>
Atrazine	0.5	ug/L	<micrograms/Liter	3 ug/L
Fluoride	0.361	mg/L	<milligrams/Liter	4 mg/L
Nitrate*	0.0991	mg/L	<milligrams/Liter	10 mg/L
Barium	0.035	mg/L	<milligrams/Liter	2 mg/L

*NOTE: Every system must collect data for Nitrate and Nitrite. This value is for the LCWSD only.

NOTE: MCL =Maximum Contaminant Level Allowed

Turbidity at the Treatment Plant

Turbidity NTUs	.36 Max. NTU	<Nephelometric Turbidity Units
	.05 Avg. NTU	<Nephelometric Turbidity Units
Lowest % of Monthly Samples Meeting NTU Limits:	100%	

NOTE: Turbidity MCL is exceeded if more than 5% of all samples in a single moth are greater than 0.3 NTU

Unregulated Contaminants Monitored at the Treatment Plant

Chloroform	58.14 ug/L	<micrograms/Liter
Bromodichloromethane	12.9 ug/L	<micrograms/Liter
Dibromochloromethane	1.55 ug L	<micrograms/Liter

Non-Regulated and Secondary Constituents

Chloride	10.1 mg/L	<milligrams/Liter
Sulfate	42.8 mg/L	<milligrams/Liter
Conductivity	217	micromhos/centimeter
Total Dissolved Solids	167 mg/L	<milligrams/Liter
Sodium	18 mg/L	<milligrams/Liter
Total Alkalinity	35.8 mg/L	<milligrams/Liter
Hardness	56.8 mg/L	<milligrams/Liter
Calcium	19.9 mg/L	<milligrams/Liter
Aluminum	0.02 mg/L	<milligrams/Liter
Magnesium	1.74 mg/L	<milligrams/Liter
Potassium	3.35 mg/L	<milligrams/Liter

Microbiological Contaminants

Total coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are more hardy than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

Contaminant	Highest Monthly % of positive samples	MCL	Unit of Measure	Source of Contaminant
Total Coliform	Completed by Public Water System (PWS)	Presence of coliform bacteria in 5% of monthly samples	Presence	Naturally present in the environment

Turbidity

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 disinfection process.

Contaminant	Location	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Turbidity Limits	Unit of Measure	Source of Contaminant
Turbidity	Wright Patman	0.41	99.5%	≤0.3 in 95% of samples	NTU	Soil runoff
	Millwood	0.25	100%			

Total Organic Carbon (TOC)

The percentage of Total Organic Carbon (TOC) removal was measured monthly in 2023 and TWU met all TOC removal requirements set by USEPA.

Inorganic Contaminants

Contaminant	Location	Highest Level Detected	Range of Detected Level	MCL	MCLG	Unit of Measure	Source of Contaminant
Nitrate (as Nitrogen)	Enter PWS Name Here (collected in PWS distribution system)	Completed by PWS	Completed by PWS	10	10	ppm	Runoff from fertilizer use; leakage from septic tanks, sewage; erosion of natural deposits
Barium	Wright Patman	0.041	0-0.041	2	2	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
	Millwood	0.014	0-0.0151				
Cyanide	Wright Patman	56.9	0-56.9	200	200	ppb	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	Wright Patman	0.0252	0-0.0252	4	4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
	Millwood	<0.10	0<0.10				
Nitrate (as Nitrogen)	Wright Patman	0.11	0-0.11	2	2	ppm	Runoff from fertilizer use; leakage from septic tanks, sewage; erosion of natural deposits
	Millwood	0.154	0.-0.154				

Synthetic Organic Contaminants

Contaminant	Location	Level Detected	Range of Detected Level	MCL	MCLG	Unit of Measure	Source of Contaminant
Atrazine	Wright Patman	0.2	0-0.2	3	3	ppb	Runoff from herbicide used on row crops
	Millwood	<0.1	0-<0.1				

Lead & Copper Tap Monitoring (list most recent year's results)

Contaminant	Location	The 90th Percentile	Number of Sites Exceeding Action Level	Action Level	MCLG	Unit of Measure	Source of Contaminant
Lead	Enter Public Water System Name Here	Completed by PWS	Completed by PWS	15	0	ppb	Corrosion of household plumbing systems; erosion of natural deposits
Copper		Completed by PWS	Completed by PWS	1.3	1.3	ppm	

Disinfectants

Contaminant	Location	Annual Average	Range of Detected Level	MRDL	MRDLG	Unit of Measure	Source of Contaminant
Chlorine (total)	Enter Public Water System Name Here	Completed by PWS	Completed by PWS	4	4	ppm	Disinfectant used to control microbes

Disinfection By-Products

Contaminant	Location	Highest Locational Running Annual Average	Range of Detected Level	MCL	MCLG	Unit of Measure	Source of Contaminant
Total Trihalomethane (TTHM)	Enter Public Water System Name Here	Completed by PWS	Completed by PWS	80	N/A	ppb	By-product of drinking water disinfection
Haloacetic Acid (HAA5)	Enter Public Water System Name Here	Completed by PWS	Completed by PWS	60	0	ppb	By-product of drinking water disinfection