2023 Consumer Confidence Report for Public Water System RED RIVER COUNTY WSC

This is your water quality report for January 1 to December 31, 2023

RED RIVER COUNTY WSC provides surface water and ground water from the

Blossom Sand and Nacatoch Aquifer 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 | 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

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

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

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

07/24/2024

picocuries per liter (a measure of radioactivity)

Definitions and Abbreviations

ppb: micrograms per liter or parts per billion ppm:

pm: milligrams per liter or parts per million

ppq parts per quadrillion, or picograms per liter (pg/L)

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 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 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 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 system contact] [insert phone number]

| Lead and Copper | Date Sampled | MCLG | T | | | | | |
|-----------------|--------------|------|-------------------|-----------------|-----------------|-------|-----------|---|
| | - 1 | _ | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
| Copper | 08/22/2021 | 1.2 | | | | | | |
| | 2021 | 1.5 | 1.3 | 0.207 | 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 | 9 | 3 - 16.4 | No goal for the | | | | |
| *The value in the Highest Level o | D. A. Comp. D. C. C. C. | | | total | 60 | ppb | N | By-product of drinking water disinfection. |
| The value in the Highest Level of | Average Detected co | olumn is the highest a | verage of all HAA5 sam | ple results collected | at a location over a | year | | |

| Total Trihalomethanes | 2023 | 40 | | r | | | | |
|------------------------------------|---------------------|-------------------------|-----------------------|------------------------|------------------------|------|---|--|
| (TTHM) | | 49 | 11.1 - 86.9 | No goal for the total | 80 | ppb | N | By-product of drinking water disinfection. |
| *The value in the Highest Level or | Average Detected co | olumn is the highest av | erage of all TTHM sar | nple results collected | d 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 | 0.0082 | 0.000 | | | | | |
| | | 0.0082 | 0.0082 - 0.0082 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Chromium | 2023 | 1.2 | 1.2 - 1.2 | 100 | | | | • |
| | | | 1.2 - 1.2 | 100 | 100 | ppb | N | Discharge from steel and pulp mills; Erosion of natural deposits. |
| luoride | 2023 | 0.708 | 0.146 - 0.708 | | | | | |
| | | 3.700 | 0.146 - 0.708 | 4 4.0 | ppm | N | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and | |
| Nitrate [measured as | 2023 | 0.467 | 0.01(0, 0.4(7) | | | | | aluminum factories. |
| litrogen] | | 0.407 | 0.0168 - 0.467 | 10 | 10 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |

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 | | MRDLG | Unit of Measure | | Source in Drinking Water |
|-----------------------|----------|---------------|-----------------------------|---|-------|--------------------|---|--|
| Free | 2023 | 1.98 | | | | Measure | | |
| | | 1.56 | .3-3.9 | 4 | 4 | ppm | N | Water additive used to control microbes. |

Lamar County Water Supply PWS ID # 1390015

Constituents Detected In Treated Water Leaving the WTP 2023

^{*}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 | .65 Max. NTU | <nephelometric td="" turbidity="" units<=""></nephelometric> |
|----------------|--------------|--|
| | 16 A NITH | The state of the s |

.16 Avg. NTU < Nephelometric Turbidity Units

Lowest % of Monthly Samples Meeting NTU Limits: 99%

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

Unregulated Contaminants Monitored at the Treatment Plant

| Cl. I . C | | and the finding |
|----------------------|-----------|---|
| Chloroform | 36.6 ug/L | <micrograms liter<="" td=""></micrograms> |
| Bromodichloromethane | | mer obramo, Litter |
| promodicinoromethane | 10.8 ug/L | <micrograms liter<="" td=""></micrograms> |
| Dibromochlonens | | on oblamby Elect |
| Dibromochloromethane | 1.89 ug L | <micrograms liter<="" td=""></micrograms> |

Non-Regulated and Secondary Constituents

| THE THE PROPERTY OF THE PROPER | ondary Constituents | |
|--|---------------------|---|
| Chloride | 9.24 mg/L | <milligrams liter<="" td=""></milligrams> |
| Sulfate | 46.0 mg/L | <milligrams liter<="" td=""></milligrams> |
| Conductivity | 226 | micromhos/centimeter |
| Total Dissolved Solids | 119 mg/L | <pre><milligrams liter<="" pre=""></milligrams></pre> |
| Sodium | 19.6 mg/L | <milligrams liter<="" td=""></milligrams> |
| Total Alkalinity | 38.2 mg/L | <milligrams liter<="" td=""></milligrams> |
| Hardness | 56.2 mg/L | <milligrams liter<="" td=""></milligrams> |
| Calcium | 19.5 mg/L | <milligrams liter<="" td=""></milligrams> |
| Aluminum | 0.024 mg/L | <milligrams liter<="" td=""></milligrams> |
| Magnesium | 1.83 mg/L | <milligrams liter<="" td=""></milligrams> |
| Potassium | 2.93 mg/L | <milligrams liter<="" td=""></milligrams> |
| | | |

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.

| | I good in | acation that the water is microbi | ologically safe for hum | an consumption. |
|----------------------------|---|--|-------------------------|--------------------------------------|
| Contaminant | Highest Monthly % of positive samples | MCL | Unit of Measure | Source of Contaminant |
| Total Coliform Bacteria | 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

| enectiveness of ot | ir filtration system and | disinfection proces | ss. | | n boodage i | t is a good indicator of water quality and the |
|--------------------|--------------------------|-------------------------------|---|---------------------|--------------------|--|
| Contaminant | Location | Highest Single Measurement | Lowest Monthly % of Samples Meeting Limits | Turbidity Limits | Unit of Measure | Source of Contaminant |
| Turbidity | Wright Patman | 0.24 | 100% | ≤0.3 in | incasure | |
| . arziany | Millwood | 0.29 | 100% | 95% of | NTU | Soil runoff |
| Total Organic C | erhan (TOO) | | | samples | | |

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 | nom | Runoff from fertilizer use; leakage from septic tanks, sewage; erosion of natural deposits |
| Barium | Wright Patman | 0.052 | 0.013-0.052 | | <u> </u> | | |
| | Millwood | 0.0151 | 0-0.0151 | 2 | 2 | ppm | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits |
| Fluoride | Wright Patman | 0.04 | 0-0.4 | | | | |
| - Tuende | Millwood | <0.10 | 0<0.10 | 4 | 4 | ppm | Erosion of natural deposits, water additive which promotes strong teeth; discharge from fertilizer and aluminum factorie |
| Nitrate | Wright Patman | 0.139 | 0.0483-0.139 | | | | |
| (as Nitrogen) | Millwood | 0.32 | 0.32 | 2 | 2 | ppm | Runoff from fertilizer use; leakage from septic tanks, sewage; erosion of natural deposits |

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 | | | Moderate | |
| | Millwood | 0.22 | 0-0.22 | 3 | 3 | ppb | Runoff from herbicide used on row crops |
| Radioactive Contaminants (2020 Results) | | | | | | | |

Radioactive Contaminants (2020 Results)

| 15 | 0 | pCi/L | Erosion of natural deposits of certain radioactive minerals that may emit a form of radiation known as alpha radiation |
|----|---|-------|--|
| 50 | 0 | pCi/L | Decay of natural and man-made deposits of certain radioactive minerals that may emit forms of radiation known as photons and beta radiation. |
| 5 | 0 | 0 0 | 0 0 pCi/L |

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

| Contaminant | Location | The 90th Percentile | Exceeding Action | Action | 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 | | |

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 | Running Annual | 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 |

DEFINITIONS

ADH: Arkansas Department of Health

AL: Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which water systems must follow.

ALG: Action Level Goal - 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.

Avg: Average - regulatory compliance with some MCLs are based on a 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.

MCL: Maximum Contaminant Level - the highest level of a contaminant that is allowed in drinking water

MCLG: Maximum Contaminant Level Goal - unenforceable public health goal; the level of a contaminant in drinking water below which there is no known or

MRDL: Maximum Residual Disinfectant Level - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a

MRDLG: Maximum Residual Disinfectant Level Goal- the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs

MREM: millirems per year (a measure of radiation absorbed by the body)

MW: Millwood Water Treatment Plant

NA: not applicable

NTU: Nephelometric Turbidity Unit (a measurement of turbidity)

ppm: parts per million or milligrams per liter - or one ounce in 7,350 gallons of water

ppb: parts per billion or micrograms per liter - or one ounce in 7,350,000 gallons of water

ppq: parts per quadrillion, or picograms per liter (pg/L)

ppt: parts per trillion, or nanograms per liter (ng/L)

pCi/L: picocuries per liter (a measure of radioactivity)

TCEQ: Texas Commission on Environmental Quality

TT (Treatment Technique): A required process intended to reduce the level of a contaminant in drinking water

TWU: Texarkana Water Utilities

WP: Wright Patman Water Treatment Plant

UCMR: Unregulated Contaminant Monitoring Rule