

# 2024 Annual Drinking Water

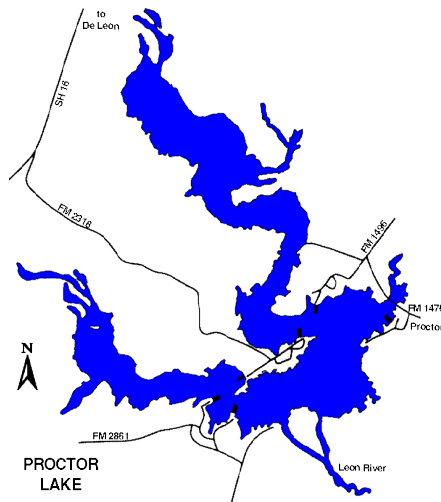
January 01 to December 31, 2024

## Quality Report

2250 Highway 2861 • General Office & Proctor Water Treatment Plant • (254) 879-2258

This annual Drinking Water Report, also known as the Consumer Confidence Report, is from your water supplier, **Upper Leon River Municipal Water District**. It provides detailed information about your drinking water so that you can be informed and have confidence in the product we deliver. The Water District employees take pride in producing and delivering water to your tap that meets or exceeds federal and state standards. The information being provided in this report is for the appropriate reporting year as required by federal and state guidelines. Additional information may be obtained by contacting the Water District's General Office, located adjacent to Lake Proctor Dam, from 8:00 a.m. to 4:30 p.m. Monday thru Friday. Office phone #: (254) 879-2258. **Emergency On-Call #: (254) 979-7662.**

### THE YEAR 2024 REPORT ON DRINKING WATER QUALITY



Upper Leon River  
Municipal Water District  
Water Department  
2250 Highway 2861  
Comanche, TX 76442

PRESORTED  
FIRST CLASS  
POSTAGE  
PERMIT NO. 500



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 provider. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline at (800) 426-4791.

### Where do we get our drinking water?

Upper Leon River MWD customers receive treated water supplied from Proctor Lake in Comanche County, which is classified as a surface water supply. This water receives full treatment at the District's Proctor Treatment Plant, as prescribed by federal and state regulatory agencies. The entire process is monitored continually for compliance and quality control by certified and experienced operators who are always willing to answer questions. The TCEQ completed an assessment of your source water and results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detections of these contaminants may be found in this Consumer Confidence Report. For more information on Source Water assessments or protection efforts at our system, contact Carroll Abbey or Matthew Byrd at 254-879-2228. The Source Water Report may be located by navigating the Texas Drinking Water Watch at the following URL: <http://dww2.tceq.texas.gov/DWW>

Question: What does "High" mean?

Answer: "High" susceptibility means there are activities near the source water, and the natural conditions of the aquifer or watershed make it highly likely that chemical constituents may come into contact with the source water. It does not mean that there are any health risks present.

Question: What does "Medium" mean?

Answer: "Medium" susceptibility means there are activities near the source water and the natural conditions of the aquifer or watershed make it somewhat likely that chemical constituents may come into contact with the source water. It does not mean that there are any health risks present.

Question: What does "Low" mean?

Answer: "Low" susceptibility means there are activities near the source water and the natural conditions of the aquifer or watershed make it unlikely that chemical constituents may come into contact with the source water. It does not mean that there are any health risks present.

### Our Drinking Water Meets or Exceeds EPA Drinking Water Requirements

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 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 is in your drinking water.

**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.

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. In order to ensure that tap water is safe to drink, the EPA prescribes regulations which limit the amounts 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. 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.

**Regulated Contaminants**

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorite	2024	0.714	0 - 0.714	0.8	1	ppm	N	By-product of drinking water disinfection
Haloacetic Acids (HAA5)*	2024	29	16.2 – 35.4	No goal for the total	60	ppb	N	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)*	2024	82	40.3 – 60.8	No goal for the total	80	ppb	Y	By-product of drinking water disinfection

\* The value in the Highest Level or Average Detected column is the highest average of all HAA5/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
Arsenic	2024	2	2.3 - 2.3	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2024	0.123	0.123 - 0.123	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2024	20	20 - 20	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2024	0.2	0.17 - 0.17	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	0.07	0.07 - 0.07	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2024	4.1	4.1 - 4.1	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2024	9.4	9.4 - 9.4	0	50	pCi/L*	N	Decay of natural and man-made deposits.

\* EPA considers 50 pCi/L to be the level of concern for beta particles.

Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Atrazine	2024	0.1	0.1 - 0.1	3	3	ppb	N	Runoff from herbicide used on row crops.

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Toluene	2024	0.0008	0 - 0.0008	1	1	ppm	N	Discharge from petroleum factories.

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	0.368	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2024	0	15	4.05	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

**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. We are responsible for providing high quality drinking water, but Upper Leon River MWD 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>.



In the Texas Water Development Board Utility Profile for Upper Leon River Municipal Water District, WATER LOSS for **Calendar Year 2024 was calculated to be 41,482,343 gallons**. This is 5 % expressed as a percentage. Water Loss information will be provided to customers as new Water Loss Audits are conducted and the information made available. You will receive this information on the next water bill after the audit is completed, or the next annual Consumer Confidence Report. If you have questions about water loss, please contact Upper Leon River Municipal Water District at 254-879-2258.

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chloramine	2024	3.1	0.5 – 5.6	4	4	ppm	N	Water additive used to control microbes.

Total Coliform Bacteria	REPORTED MONTHLY; TESTS FOUND NO TOTAL COLIFORM BACTERIA
Fecal Coliform	REPORTED MONTHLY; TESTS FOUND NO FECAL COLIFORM BACTERIA

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				
Total organic carbon (TOC) has no health effects. Disinfectants can combine with TOC to form byproducts. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. Byproducts of disinfection include THMs and HAAs which are reported elsewhere in this report						
Year	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2024	Source Water	10.16	7.92	12.80	ppm	Naturally present in the environment
2024	Drinking Water	6.87	5.51	9.89	ppm	Naturally present in the environment
2024	Removal Ratio	0.84	0.57	1.04	% removal	n/a

\*Removal ratio is the percent of TOC removed by the treatment process divided by the percent of TOC required by TCEQ to be removed.

**Unregulated Contaminants - TTHMs at Point-of-Entry to System**

Bromoform, chloroform, dibromochloromethane, and bromodichloromethane are disinfection byproducts. No maximum contaminant level (MCL) for these chemicals at entry point to distribution. There are, however, MCLGs (Max Contaminant Level Goals).					
Point of Entry	Date Collected	Level Detected	MCLG	Unit of Measure	Source of Contaminant
Chloroform	4/11/2024	2.3	70	ppb	Biprodut of drinking water disinfection
Bromodichloromethane	4/11/2024	7.7	0	ppb	Biprodut of drinking water disinfection
Dibromochloromethane	4/11/2024	13	60	ppb	Biprodut of drinking water disinfection
Bromoform	4/11/2024	14	0	ppb	Biprodut of drinking water disinfection
Unregulated Contaminant Monitoring Regulations (UCMR) Reporting Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. When notified, Upper Leon River Municipal Water District is participating in UCMR monitoring.					

Turbidity	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest single measurement	0.42 NTU	1 NTU	N	Soil runoff.
Lowest monthly % meeting limit	97%	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.

**Violations**

<b>Public Notification Rule</b>			
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	01/05/2024	01/24/2024	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.

<b>Total Trihalomethanes (TTHM)</b>			
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
MCL, LRAA	01/01/2024	03/31/2024	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

#### Other Minerals and Metals of Interest

Constituent	Collection Date	Result	Unit of Measure	<b>COMMENTS:</b> <b>Hard Water</b> is not known to cause any adverse health effects. <b>Hardness</b> is primarily caused by the presence of dissolved <b>Calcium</b> and <b>Magnesium</b> in the water. There is no well-defined distinction between hard water and soft water. In general, hardness values of less than 75 mg/L as calcium carbonate (CaCO <sub>3</sub> ) represent soft water, and values above 150 mg/L CaCO <sub>3</sub> represent hard water. While not a health risk, Hard Water can be a nuisance because of mineral buildup on plumbing. The degree of hardness becomes greater as the calcium and magnesium content increases. <b>Sodium</b> and <b>Potassium</b> are essential nutrients. Levels of either in a Public Water System are unlikely to be a significant contribution to adverse health effects. It has been estimated that at levels of 50 mg/l of sodium, a 150-pound person drinking two liters (about 8 glasses) of water per day would typically ingest less than 100 mg of sodium from the drinking water; well within FDA's "very low sodium" category. EPA has not found <b>Nickel</b> to potentially cause health effects and there are no health concerns related to <b>Alkalinity</b> .
Total Hardness as CaCO <sub>3</sub>	2/14/2024	203	ppm	
Calcium	2/14/2024	46.0	ppm	
Magnesium	2/14/2024	21.5	ppm	
Sodium	2/14/2024	64.7	ppm	
Potassium	2/14/2024	12.8	ppm	
Nickel	2/14/2024	0.0014	ppm	

**Secondary Constituents** — Secondary constituents are regulated in public drinking water. They are called "secondary" instead of primary because they have no adverse health effects. They can, however, cause unpleasant aesthetics such as taste and odor issues or be of other concerns.

Constituent	Collection Date	Result	MCL	Unit of Measure	Source of Contaminant and/or Comments
Aluminum	2/14/2024	<0.0200	0.05 - 0.2	ppm	Naturally occurring in the environment. Aluminum salts are used as coagulants to purify water.
Copper (Total)	2/14/2024	0.0048	1.0	ppm	Source in Drinking Water - Corrosion of household plumbing systems; Erosion of natural deposits.
Iron (Total)	2/14/2024	< 0.010	0.3	ppm	Iron is a common metallic element found in the earth's crust. Water percolating through soil and rock can dissolve minerals containing iron. Occasionally, iron pipes may also be a source of iron in water.
Manganese	2/14/2024	0.0139	0.05	ppm	Manganese is a common metallic element found in the earth's crust. Water percolating through soil and rock can dissolve minerals containing manganese. Black to brown color; black staining; bitter
Silver	2/14/2024	< 0.0100	0.1	ppm	A basic element; occurs naturally as a soft silver-colored metal. The natural wearing down of silver bearing rocks and soil by wind and rain can release silver into the environment. Silver is also used as an antibacterial agent in many home water treatment devices, and so presents a potential problem.
Zinc	2/14/2024	<0.0050	5.0	ppm	Can cause a metallic taste. Zinc is found naturally at low concentrations in many rocks and soils principally as sulfide ores and to a lesser degree carbonates.
Corrosivity			non-corrosive		See Note below.

The corrosion process is an oxidation/reduction reaction that returns refined or processed metal to their more stable ore state. Corrosion will occur anywhere a galvanic cell or field can be or has established. To establish the field all that is needed is two dissimilar metals that are connected directly or indirectly by an electrolyte, such as water. Nearly all metals will corrode to some degree. The rate and extent of the corrosion depends on the degree of dissimilarity of the metals and the physical and chemical characteristics of the media, metal, and environment. Corrosion can also be accelerated by:

- 1) low pH (acidic water) and high pH (alkaline water);
- 2) high flow rate within the piping can cause physical corrosion;
- 3) high water temperature can increase biological rate of growth and chemical corrosion;
- 4) oxygen and dissolved CO<sub>2</sub> or other gases can induce corrosion;
- 5) high dissolved solids, such as: salts and sulfates, can induce chemical or bio-chemical corrosion;
- 6) corrosion related bacteria, high standard plate counts and electrochemical corrosion can result in pin hole leaks and isolated corrosion and aesthetic water quality problems, and
- 7) presence of suspended solids, such as sand, sediment, corrosion by-products, and rust can aid in physical corrosion and damage and facilitate chemical and biochemical corrosion.

The General Office of the Upper Leon River Municipal Water District, and the Proctor Water Treatment Plant, are located adjacent to Lake Proctor Dam off FM 2861. General Office hours are 8:00 AM to 4:30 PM, Monday thru Friday, and the phone number is (254) 879-2258 or (254) 879-2228. Visit our website at <http://www.ulrmwd.com>.