2024 Consumer Confidence Report for Public Water System ELM RIDGE WCID

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

Elm Ridge WCID provides purchased surface water from Lewisville and Chapman lakes located in Denton/Delta and Hopkins Counties.

For more information regarding this report contact:

Name: Chris Cox

Phone: 972-544-7115

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (972) 544-7115.

Definitions and Abbreviations

Definitions and Abbreviations	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

The Elm Ridge WCID purchases water from UTRWD Regional Water Treatment Plant. UTRWD Regional Water Treatment Plant provides purchased surface water from Lewisville Lake and Chapman Lake located in Denton/Delta and Hopkins Counties.

WATER FROM UPPER TRINITY REGIONAL WATER DISTRICT CONSTITUENTS DETECTED FOR 2024

UTRWD Source Water Name: Lewisville/Chapman Lakes Type: Surface Water Location Denton/Delta and Hopkins Counties

Date	Substance	Maximum Level in UTRWD Water	Minimum Level in UTRWD Water	Average Level in UTRWD Water	MCL	MCLG	Possible Source
2024	Bromate* (ppb)	11	1.7	5	10	0	By-product of drinking water disinfection.
2024	Arsenic (ppb)	1.2	0	0.6	10	0	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production.
2024	Barium (ppm)	0.047	0.036	0.042	2	2	Discharge from man-made drilling and metal refinery deposits; erosion of natural deposits.
2024	Chromium (ppb)	1.1	0	0.55	100	100	Discharge from steel and pulp mills; erosion of natural deposits.
2024	Cyanide (ppm)	0.13	0	0.065	0.2	0.2	Discharge from man-made plastic, fertilizer, and steel/metal factories.
2024	Fluoride** (ppm)	0.26	0.17	0.22	4	4	Erosion of natural deposits; Discharge from fertilizer and aluminum production.
2024	Nitrate as N (ppm)	0.61	0.15	0.38	10	10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.
2024	Turbidity *** (NTU)	0.16	0.04	0.07	0.3	N/A	Soil runoff.
2024	Total Organic Carbon (TOC)	The percentage of Total Organic Carbon (TOC) removal was measured each month, and the system met all TOC removal requirements set.					

Radioactive Contaminants

2023	Beta/photon emitters**** (pCi/L)	4.2	4.2	4.2	50	0	Decay of natural and man-made deposits

Synthetic Organic Chemicals Including Pesticides and Herbicides

2024	Atrazine (ppb)	0.3	0	0.14	3	3	Runoff from residential and agricultural herbicide use.
2024	Metolachlor (ppb)	0.2	0	0.1	N/A	N/A	Agricultural herbicide runoff.

* The MCL for Bromate is the annual running average of monthly averages, computed quarterly (30 TAC§ 290.114(b){C).

** UTRWD does not add fluoride to its water.

*** 100% of samples were below the 0.3 NTU turbidity limit.

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

TCEQ completed an assessment of your source water, and results indicate that our sources have a low susceptibility to 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 Chirs Cox at 972-544-7115.

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	0.0622	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2024	0	15	0	0	ppm	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Lead Service Line Inventory

The Elm Ridge WCID - Artesia has successfully completed the required Lead Service Line Inventory in compliance with the **Lead and Copper Rule Improvements (LCRI)**. Residents and stakeholders can obtain their service line material by accessing the following link https://www.elmridgetx.org/water

System Water Loss

In the water loss audit submitted to the Texas Water Development Board, for the time period of January 2024 - December 2024, our water system lost an estimated total of 16,294,038 gallons of water or 7.63%.

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	17	3.5 - 28.6	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	28	12.4 - 47.1	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

*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
Nitrate [measured as Nitrogen]	2024	0.313	0.262 - 0.313	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
Combined Total Chlorine	2024	2.43	0.51 – 3.35	4	4	ppm	N	Water additive used to control microbes.