



372 Town Place • Fairview, TX 75069 • Town Hall 972-562-0522

2023 Consumer Confidence Report

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

The Town of Fairview provides purchased surface water from **Lake Lavon and Bois d'Arc Lake** located in Collin County, Texas.

For more information regarding this report contact:

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Este reporte incluye informacion importante sobre el agua para tomar.

Para asistencia en espanol, favor de llamar al telefono 972-562-0522

Definitions and Abbreviations

| | |
|---|--|
| 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) determine why total coliform bacteria have been found in a 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 a water system on multiple occasions. |
| Maximum Contaminant Level (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 (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 (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 (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) |
| ppb | micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water. |
| ppm | milligrams per liter or parts per million – or one ounce in 7,350 gallons of water. |
| ppq | parts per quadrillion, or picograms per liter (pg/L) |
| ppt | parts per trillion, or nanograms per liter (ng/L) |
| Treatment Technique (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 EPA's 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

TOWN OF FAIRVIEW purchases water from NORTH TEXAS MWD WYLIE WTP. NORTH TEXAS MWD WYLIE WTP provides purchase surface water from **Lake Lavon and Bois d'Arc Lake** located in **Collin County**.

TCEQ completed a Source Water Susceptibility for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the drinking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system contact **Town of Fairview, 469-628-4712**.

Wylie Water Treatment Plant

WATER QUALITY DATA FOR YEAR 2023

| Inorganic Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Likely Source of Contamination | Violation |
|--------------------------------|-----------------|------------------------|--------------------------|------|-----|-------|---|-----------|
| Barium | 2023 | 0.048 | 0.041-0.048 | 2 | 2 | ppm | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits | No |
| Cyanide | 2023 | 199 | 28-199 | 0-0 | 200 | ppb | Discharge from steel/metal factories; discharge from plastics and fertilizer factories. | No |
| Flouride | 2023 | 0.968 | 0.537-0.968 | 4 | 4 | ppm | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories | No |
| Nitrate (measured as nitrogen) | 2023 | 0.790 | 0.067-0.790 | 10 | 10 | ppm | Runoff from fertilizer use; leaching from septic tanks; sewage; erosion from natural deposits | No |

Nitrate Advisory: Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

| Radioactive Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Likely Source of Contamination | Violation |
|--------------------------|-----------------|------------------------|--------------------------|------|-----|-------|--|-----------|
| Beta/photon emitters | 2022 | 4.7 | 4.7-4.7 | 0 | 50 | pCi/L | Decay of natural and man-made deposits | No |

| Synthetic organic contaminants including pesticides and herbicides | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Likely Source of Contamination | Violation |
|--|-----------------|------------------------|--------------------------|------|-----|-------|---|-----------|
| Atrazine | 2023 | 0.2 | 0.10-0.2 | 3 | 3 | ppb | Runoff from herbicide used on row crops | No |
| Simazine | 2023 | 0.12 | 0.06-0.12 | 4 | 4 | ppb | Herbicide runoff | No |

Wylie Water Treatment Plant (Continued)

WATER QUALITY DATA FOR YEAR 2023

| Turbidity | Limit | Level Detected | Likely Source of Contamination | Violation |
|---|--------------|-----------------------|---------------------------------------|------------------|
| Highest Single measurement | 1 NTU | 0.73 | Soil Runoff | No |
| Lowest monthly percentage meeting limit | 0.3 NTU | 98.0% | Soil Runoff | No |

| Secondary Constituents | Date | Highest lvl detected | Range of Levels | Units | Likely Source of Contamination | Violation |
|-------------------------------|-------------|-----------------------------|------------------------|--------------|---|------------------|
| Total Hardness as Ca/CO3 | 2023 | 312 | 82-312 | ppm | Naturally occurring calcium | N/A |
| Calcium | 2023 | 69.8 | 26.5-69.8 | Ppm | Naturally occurring element | N/A |
| Chloride | 2023 | 107 | 30.0-107 | ppm | Naturally occurring element, used in water purification, byproduct of oilfield activity | N/A |
| Magnesium | 2023 | 9.77 | 4.90-9.77 | ppm | Naturally occurring element | N/A |
| Manganese | 2023 | 0.158 | 0.0068-0.158 | ppm | Naturally occurring element | N/A |
| Nickel | 2023 | 0.0048 | 0.0047-0.0048 | ppm | Erosion of natural deposits | N/A |
| pH | 20223 | 9.17 | 6.39-9.17 | Units | Measure of corrosivity of water | N/A |
| Sodium | 2023 | 95.4 | 26.5-95.4 | ppm | Erosion of natural deposits, by- product of oil field activity | N/A |
| Sulfate | 2023 | 171 | 76.8-171 | ppm | Naturally occurring, common industrial by product, by-product of oil field activity | N/A |
| Total Dissolved Solids | 2023 | 492 | 263-492 | ppm | Total dissolved mineral constituents in water | N/A |
| Total Alkalinity as CaCO3 | 2023 | 139 | 51-139 | ppm | Naturally occurring soluble mineral salts | N/A |

Leonard Water Treatment Plant

WATER QUALITY DATA FOR YEAR 2023

| Inorganic Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Likely Source of Contamination | Violation |
|--------------------------------|-----------------|------------------------|--------------------------|------|-----|-------|---|-----------|
| Barium | 2023 | 0.044 | 0.044-0.044 | 2 | 2 | ppm | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits | No |
| Cyanide | 2023 | 28.7 | 28.7-28.7 | 0-0 | 200 | ppb | Discharge from steel/metal factories; discharge from plastics and fertilizer factories. | No |
| Flouride | 2023 | 0.19 | 0.19-0.19 | 4 | 4 | ppm | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories | No |
| Nitrate (measured as nitrogen) | 2023 | 0.0555 | 0.0555-0.0555 | 10 | 10 | ppm | Runoff from fertilizer us; leaching from septic tanks/sewage/erosion of natural deposits. | No |

| Radioactive Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Likely Source of Contamination | Violation |
|--------------------------|-----------------|------------------------|--------------------------|------|-----|-------|--|-----------|
| Beta/photon emitters | 2023 | 4.1 | 4.1-4.1 | 0 | 50 | pCi/L | Decay of natural and man-made deposits | No |

| Synthetic organic contaminants including pesticides and heribices | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Likely Source of Contamination | Violation |
|---|-----------------|------------------------|--------------------------|------|-----|-------|---|-----------|
| Atrazine | 2023 | 0.2 | 0.2-0.2 | 3 | 3 | ppb | Runoff from herbicide used on row crops | No |

| Turbidity | Limit | Level Detected | Likely Source of Contamination | Violation |
|---|---------|----------------|--------------------------------|-----------|
| Highest Single measurement | 1 NTU | 0.25 | Soil Runoff | No |
| Lowest monthly percentage meeting limit | 0.3 NTU | 100% | Soil Runoff | No |

Leonard Water Treatment Plant (Continued)

WATER QUALITY DATA FOR YEAR 2023

| Secondary Constituents | Date | Highest lvl detected | Range of Levels | Units | Likely Source of Contamination | Violation |
|---------------------------|-------|----------------------|-----------------|-------|---|-----------|
| Total Hardness as Ca/CO3 | 2023 | 138 | 104-138 | ppm | Naturally occurring calcium | N/A |
| Calcium | 2023 | 51.6 | 46.8-51.6 | ppm | Naturally occurring element | N/A |
| Chloride | 2023 | 14.4 | 10.3-14.4 | ppm | Naturally occurring element, used in water purification, byproduct of oilfield activity | N/A |
| Magnesium | 2023 | 2.58 | 2.58-2.58 | ppm | Naturally occurring element | N/A |
| Manganese | 2023 | 0.107 | 0.024-0.107 | ppm | Naturally occurring element | N/A |
| Nickel | 2023 | 0.0039 | 0.0039-0.0039 | ppm | Erosion of natural deposits | N/A |
| pH | 20223 | 8.6 | 7.6-8.6 | Units | Measure of corrosivity of water | N/A |
| Sodium | 2023 | 34.9 | 24.2-34.9 | ppm | Erosion of natural deposits, by- product of oil field activity | N/A |
| Sulfate | 2023 | 81.1 | 60.4-81.1 | ppm | Naturally occurring, common industrial by product, by-product of oil field activity | N/A |
| Total Dissolved Solids | 2023 | 263 | 223-263 | ppm | Total dissolved mineral constituents in water | N/A |
| Total Alkalinity as CaCO3 | 2023 | 137 | 111-137 | ppm | Naturally occurring soluble mineral salts | N/A |

Regulated in the Distribution System

| Disinfection Byproducts | Collection Date | Highest lvl detected | Range of Samples | MCLG | MCL | Units | Likely Source of Contamination | Violation |
|------------------------------|-----------------|----------------------|------------------|---------|-----|-------|---|-----------|
| Haloacetic Acids (HAA5) | 2023 | 20 | 8.8-24.3 | No goal | 60 | ppm | By-product of drinking water disinfection | No |
| Total Trihalomethanes (TTHM) | 2023 | 37 | 13.6-43.7 | No goal | 80 | ppm | By-product of drinking water disinfection | No |

| Disinfection Residual | Year | Average level | Range of Levels detected | MRDL | MRDLG | Units | Source of Chemical | Violation |
|-----------------------|------|---------------|--------------------------|------|-------|-------|---|-----------|
| Chloramines | 2023 | 2.4 | 0.5-3.5 | 4.0 | 4.0 | ppm | Water additive used to control microbes | No |

| Inorganic Contaminants | Collection Date | Highest level detected | Range of Samples | MCLG | MCL | Units | Likely Source of Contamination | Violation |
|--------------------------------|-----------------|------------------------|------------------|------|-----|-------|---|-----------|
| Nitrate (measured as Nitrogen) | 2023 | 0.0649 | 0.0547-0.0649 | 10 | 10 | ppm | Runoff from fertilizer us; leaching from septic tanks, sewage; Erosion of natural deposits. | No |

Regulated at the Customers Tap

| Lead and Copper | Collection Date | MCLG | Action level (AL) | 90 th Percentile | #Sites Over AL | Units | Likely Source of Contamination | Violation |
|-------------------|-----------------|------|--|---------------------------------|---|-------|--|-----------|
| Copper | 2023 | 1.3 | 1.3 | 0.718 | 0 | ppm | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems | No |
| Lead | 2022 | 0 | 15 | 1.4 | 0 | ppm | Corrosion of household plumbing systems; Erosion of natural deposits. | No |
| Coliform Bacteria | Collection Date | MCLG | Total Coliform Maximum Contamination Level | Highest No. of positive Samples | Coliform or E. Coli Maximum contaminant level | | Likely Source of Contamination | Violation |
| Coliform | 2022 | | 1 positive monthly samples | 1 | 0 | | Naturally present in the environment | No |

