**2021 Consumer Confidence Report for Public Water System CITY OF LAMESA**

This is your water quality report for January 1 to December 31, 2021 For more information regarding this report contact:

CITY OF LAMESA provides surface water and ground water from OGALALA Aquifer in Robert’s County).

Name Ernest L Ojeda

Phone 806-332-9036

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en espaiiol, favor de Ilamar al telefono (806) 332-9036

### Definitions and Abbreviations

Definitions and Abbreviations Action Level:

Action Level Goal (ALG): Avg:

Level 1 Assessment:

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

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. 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. Regulatory compliance with some MCLs are based on running annual average of monthly samples.

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 svstem.

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 whv total coliform bacteria have been found in our water svstem 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)

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**Definitions and Abbreviations**

ppb: ppm: ppq ppt

Treatment Technique or TT:

micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water. milligrams per liter or parts per million - or one ounce in 7,350 gallons of water. parts per quadrillion, or picograms per liter (pg/L)

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

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).

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# 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.](http://www.epa.gov/safewater/lead)

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**Information about Source Water**

**City of Lamesa purchases water from LUBBOCK PUBLIC WATER SYSTEM. Lubbock Public Water System provides purchase surface water from Canadian River Authority in the Ogallala Aquifer located and supplied from Roberts County.**

**2021 WATER QUALITY TEST RESULTS**

'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 ls 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 eff orts at our system contact Ernest L Ojeda at the City **of Lamesa at (806) 332- 9036.**

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| **Lead and Copper** | **Date Sampled** | **MCLG** | **Action Level (AL)** | **90th Percentile** | # **Sites over AL** | **Units** | **Violation** | **Likely Source of Contamination** |
| **Copper** | 08/14/2019 | 1.3 | 1.3 | 0.11 | 0 | ppm | **N** | Erosion of natural **deposits;** Leaching from wood preservatives; Corrosion of household plumbing systems. |

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**2021 Water Quality Test Results**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Disinfection By-Products** | **Collection Date** | **Highest Level Detected** | **Range of Individual Samples** | **MCLG** | **MCL** | **Units** | **Violation** | **Likely Source of Contamination** |
| **HaloaceticAcids (HAAS)** | 2021 | 16 | 9.7-16.7 | 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 HAAS sample results collected at a location over a year'

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| **Total Trihalomethanes (TTHM)** | 2021 | 47 | 23-62.1 | 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'

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| **Inorganic Contaminants** | **Collection Date** | **Highest Level Detected** | **Range of Individual Samples** | **MCLG** | **MCL** | **Units** | **Violation** | **Likely Source of Contamination** |
| **Arsenic** | 2021 | 5 | 1.93 | 0 | 10 | ppb | **N** | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes. |
| **Barium** | 2021 | 0.11 | 0.11-0.11 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| **Chromium** | 2021 | 4 | 4-4 | 100 | 100 | ppb | N | Discharge from steel and pulp mills; Erosion of natural deposits. |
| **Fluoride** | 2021 | 0.7 | 0.746-0.746 | 4 | 4.0 | ppm | N | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and  . -: ,, ..... .r,\_ \_, : |
| **Nitrate [measured as Nitrogen]** | 2021 | 9 | 1.18-8.78 | 10 | 10 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |

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.

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| **Radioactive Contaminants** | **Collection Date** | **Highest Level Detected** | **Range of Individual samples** | **MCLG** | **MCL** | **Units** | **Violation** | **Likely Source of Contamination** |
| **Beta/photon emitters** | 01/15/2020 | 14.7 | 14.7 - 14.7 | 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.

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| **Gross alpha excluding radon**  and uranium | 01/15/2020 | 1 | 1-1 | 0 | 15 | pCi/L | N | Erosion of natural deposits. |

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| Uranium | 01/15/2020 | 11.3 | 11.3-11.3 | 0 | 30 | ug/1 | N | 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).'

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| **Disinfectant Residual** | **Year** | **Average Level** | **Range of Levels Detected** | **MRDL** | **MRDLG** | Unit **of Measure** | **Violation (Y/N)** | **Source in Drinking Water** |  |
| Chlorine | 2021 | *1.21* | *.21-3.18* | 4 | 4 | *MG/L* | *No* ppm | Water additive used to control microbes. | |

Violations

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| Chlorine |
| Some people who use water containing chlorine well above the MRDL may experience irritating effects on the eyes and nose. Some people who drink water containing chlorine well above the MRDL may experience stomach upset. |
| |  |  |  |  | | --- | --- | --- | --- | | Violation Type | Violation Begins | Violation Ends | Violation Explanation | | Disinfectant Level Quarterly Operating Report (DLQOR)) | 04/01/2021 | 06/30/2021 | We failed to test our drinking wáter for the contaminent and period indicated. Because of the failure, we cannot be sure of the quality of our drinking wáter during the period indicated. | |

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| |  | | --- | | Lead and Copper Rule | | The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking wáter, primarily by reducing wáter corrositivity. Lead and Copper enter drinking wáter mainly from corrosión of lead and copper containing plumbimg materials   |  |  |  |  | | --- | --- | --- | --- | | Violation Type | Violation Begins | Violation Ends | Violation Explanation | | | |  |  |  |  | | --- | --- | --- | --- | | Follow-Up or Routine Tap M/R (LCR) | 07/01/2021 | 2021 | We failed to test our drinking water for the contaminant period indicated. Because of this failure, we cannot be sure of the quality of our drinking during the period indicated. | | | |  |  |  |  | | --- | --- | --- | --- | | Water Quality Parameter M/R(LCR) | 01/01/2021 | 06/30/2021 | We failed to test our drinking water for the contaminant period indicated. Because of this failure , we cannot be sure of the quality of our drinking during the period indicated | | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | Water Quality Parameter M/R(LCR) | 07/01/2021 |  | 12/31/2021 | We failed to test our drinking water for the contaminant period indicated. Because of this failure , we cannot be sure of the quality of our drinking during the period indicated | | |

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