

2020 CONSUMER CONFIDENCE REPORT FOR THE PUBLIC WATER SYSTEM
CITY OF WILLOW PARK
TX1840027

Annual Water Quality Report for the period of January 1 to
December 31, 2020.

CITY OF WILLOW PARK provides Ground Water from
the Trinity and Paluxy Aquifer in Parker County.

For more information regarding this report contact:

Michelle Guelker
Phone: (817) 441-7708

Este reporte incluye información importante sobre el agua
para tomar. Para asistencia en español, favor de llamar al
telefono (817) 441-7708.

Definitions and Abbreviations

Definitions: 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.
- **Action Level Goal (ALG):** 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:** Regulatory compliance with some MCLs are based on running annual average of monthly samples.
- **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.
- **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.
- **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.
- **Level 2 Assessment:** A Level 2 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 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)
- **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 or TT:** A required process intended to reduce the level of contaminant in drinking water.

Sources of 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

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 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 Michelle Guelker at (817) 441-7708.

| Source Water Name | Well Name | Type of Water | Report Status | Location | Aquifer Name |
|---------------------|------------|---------------|---------------|-----------------|--------------|
| Ground Storage | #1 | Groundwater | Active | Indian Camp Rd. | Paluxy |
| Ground Storage | #2 | Groundwater | Active | Indian Camp Rd. | Paluxy |
| Ground Storage | #3 | Groundwater | Active | Indian Camp Rd. | Paluxy |
| Ground Storage | #4 | Groundwater | Active | Indian Camp Rd. | Paluxy |
| Ground Storage | #5 | Groundwater | Active | Indian Camp Rd. | Paluxy |
| Ground Storage | #6T | Groundwater | Active | Indian Camp Rd. | Trinity |
| Ground Storage | #6P | Groundwater | Active | Indian Camp Rd. | Paluxy |
| Ground Storage | #7 | Groundwater | Active | Indian Camp Rd. | Trinity |
| Ranch House Road | #9T | Groundwater | Active | Ranch House Rd. | Trinity |
| Ranch House Road | #9P | Groundwater | Active | Ranch House Rd. | Paluxy |
| Surrey | #10T | Groundwater | Active | Surrey Ln. | Trinity |
| Surrey | #10P | Groundwater | Active | Surrey Ln. | Paluxy |
| Willow Wood | #11P | Groundwater | Active | Squaw Creek | Paluxy |
| El Chico | El Chico T | Groundwater | Active | El Chico | Trinity |
| El Chico | El Chico P | Groundwater | Active | El Chico | Paluxy |
| Ground Storage | #14 | Groundwater | Active | Indian Camp Rd. | Trinity |
| Ground Storage | #15 | Groundwater | Active | Indian Camp Rd. | Paluxy |
| Fox Hunt | #16T | Groundwater | Active | Fox Hunt Trl. | Trinity |
| Fox Hunt | #16P | Groundwater | Active | Fox Hunt Trl. | Paluxy |
| Willow Wood | #12 WVN | Groundwater | Active | Forest Cr. | Paluxy |
| Willow Wood | #13 WWS | Groundwater | Active | Forest Cr. | Paluxy |
| Willow Springs Oaks | WSO T | Groundwater | Active | Circle Ct. | Trinity |
| Willow Springs Oaks | #20 WSO P | Groundwater | Active | Circle Ct. | Paluxy |
| Willow Springs | #17 WSS | Groundwater | Active | Quail Crest Dr. | Paluxy |
| Willow Springs | #18 WSN | Groundwater | Active | Quail Crest Dr. | Paluxy |

2020 Disinfectant Residual Table

| Disinfectant | Year | Average Level | Minimum Level | Maximum Level | MRDL | MRDLG | Unit of Measure | Violation | Like Source of Contamination |
|---------------|------|---------------|---------------|---------------|------|-------|-----------------|-----------|--|
| Chlorine, Gas | 2020 | 1.20 | 0.37 | 2.69 | 4 | 4 | ppm | No | Water additive used to control Microbes. |

Coliform Bacteria

| Maximum contaminant Level Goal | Total Coliform Maximum contaminant Level | Highest No. of Positive | Fecal Coliform or E. Coli Maximum Contaminant Level | Total No. of Positive E. Coli or Fecal Coliform Samples | Violation | Likely Source of Contamination |
|--------------------------------|--|-------------------------|--|---|-----------|---------------------------------------|
| 0 | 1 positive monthly sample. | 3 | Fecal Coliform or E. Coli MCL: A routine sample and a repeat sample are total coliform positive, and one is also fecal coliform or E. coli positive. | 1 | N | Naturally present in the environment. |

2020 Water Loss Audit Information

| Time Period Covered by Audit | Estimated Gallons of Water Lost | Comments and/or Explanations |
|------------------------------|---------------------------------|---|
| January to December 2020 | 75,036,200* | Loss is due to leaks, meter errors, and flushing of water system to maintain water quality. |

* Does not include calculation of water in the system at any given time.

2020 Water Use Survey Information

Water Use Survey is required yearly by the Texas Water Development Board

| Time Period: Jan. to Dec. 2020 | Produced Water: 279,739,452 |
|--------------------------------|-----------------------------|
| Usage | Volume Used |
| Residential | 142,049,650 |
| Commercial | 39,793,858 |
| Institutional | 14,834,249 |
| Agriculture (Irrigation) | 8,025,495 |

Lead and Copper

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|-----------------|-----------------|-------|-----------|---|
| Copper | 2020 | 1.3 | 1.3 | 0.195 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead | 2020 | 0 | 15 | 0.00602 | 2 | ppb | N | Corrosion of household plumbing systems; Erosion of natural deposits. |

2020 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) | 2020 | 2 | 0 – 2 | 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) | 2020 | 12 | 5.41-11.6 | 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 |
|--------------------------------|-----------------|------------------------|-----------------------------|------|-----|-------|-----------|--|
| Barium | 2020 | 0.06 | 0.06-0.06 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Chromium | 2020 | 5.5 | 5.5-5.5 | 100 | 100 | ppb | N | Discharge from steel and pulp mills; Erosion of natural deposits. |
| Cyanide | 2020 | 33.7 | 0-33.7 | 200 | 200 | Ppb | N | Discharge from plastic and fertilizer factories; Discharge from steel/metal factories. |
| Fluoride | 2020 | 0.426 | 0.22-0.577 | 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] | 2020 | 0.468 | 0.0791-0.426 | 10 | 10 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |

| Radioactive Contaminants | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--------------------------|-----------------|------------------------|-----------------------------|------|-----|-------|-----------|--------------------------------|
| Combined Radium 226/228 | 5/1/2019 | 1.79 | 1.79 - 1.79 | 0 | 5 | pCi/L | N | Erosion of natural deposits. |

| | | | | | | | | |
|--|------|---|---------|---|----|-------|---|------------------------------|
| Gross alpha excluding radon and uranium | 2020 | 2 | 2-2 | 0 | 15 | pCi/L | N | Erosion of natural deposits. |
| Uranium | 2020 | 2 | 1.8-1.8 | 0 | 30 | ug/l | N | Erosion of natural deposits |

Violations

| Lead and Copper Rule | | | |
|---|------------------------|----------------------|---|
| The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials. | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| WATER QUALITY PARAMETER M/R (LCR) | 07/01/2020 | 12/31/2020 | We did test our drinking water for the contaminant in period indicated, but the results have yet to be turned in to TCEQ due to a lab error. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated. |

| Revised Total Coliform Rule (RTCR) | | | |
|---|------------------------|----------------------|--|
| The Revised Total Coliform Rule (RTCR) seeks to prevent waterborne diseases caused by E. coli. E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, | | | |
| Violation Type | Violation Begin | Violation End | Violation Explanation |
| MCL, E. COLI, POS E COLI (RTCR) | 07/01/2020 | 07/31/2020 | E. coli bacteria were found in our drinking water during the period indicated in violation of a standard. We had an E. coli positive routine or repeat sample or we failed to test for E. coli when any repeat sample tests positive for total coliform. |
| MONITORING, ROUTINE, MAJOR (RTCR) | 06/01/2020 | 06/30/2020 | We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated. |

PUBLIC PARTICIPATION OPPORTUNITIES

City Council Meeting

Date: Second Tuesday of each month

Time: 7 P.M.

Location: 516 Ranch House Road, Willow Park, TX 76087

Phone Number: 817-441-7108