

# 2021 Annual Drinking Water Quality Report (Consumer Confidence Report)

## Annual Water Quality Report for the period of January 1 to December 31. 2021 PWS ID Number TX 1290003.

This report is intended to provide you with important information about your drinking water and the efforts made the water system to provide safe drinking water.

CITY OF KAUFMAN is Purchased Surface Water for more information regarding this report contact: Director of Public Works <u>Tim Hopwood</u> Office Phone Number: (972)-962-8007

## Public Participation

**Opportunity** 

Date: Wednesday, April 13th, 2022

Time: <u>10:00 a.m.</u>

Location: <u>209 S.Washington St.</u> <u>Kaufman,TX 75142</u>

## Phone Number: (972)-932-2216

To Learn about future public meetings (concerning your drinking water) or to request to schedule one, please call us. **Source 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 pickup 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.

### Addition Health and Lead Information below:

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 case taste, color or odor problems. These types of problems are not necessarily caused 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).

Lead in Home Plumbing: 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 minutes to 2 minutes before using water for drinking or cooking. If you are concerned about lead in our 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 <u>Safe Drinking Water Hot line</u> or at http://www.epa.gov/safewater/lead.

## En Español

Este informe incluye information important sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. (972) 962-8007- para hablar con una persona bilingüe en español.

### Information about Source Water Assessments

- I. Source Water Susceptibility Assessment for your drinking water sources(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment allows us to focus source water protection strategies. For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: <u>http//</u> gis3.tceq.state.tx.us/swav/Controller/index.jsp? wtrsrc=
- Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: <u>http://dww.tceq.texas.gov./DWW</u>

## Source Water Name: <u>SW FROM NORTH TEXAS MWD</u>

I/C WITH TX0430044

 Type of Water:
 SW

 Report Status:
 Active
 Location:
 Lake Lavon

### 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 salt and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic waste water discharge, oil and gas production, mining, and farming.

Pesticides and herbicides, which can 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.

### Water Conservation

Our usable water supply is finite (we do not have an endless supply) so its up to each and every one of us to save water. Residents can do their part in conserving water and saving money in the process by becoming conscious of the amount of water your household is using. And by looking for ways to use less whenever possible. Here are a few tips:

- Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So make sure to load it to capacity.
- Turn off the tap when brushing your teeth.
- Check the faucets in the house for leaks. A slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.
- Check your toiles for leaks by putting a few drops of food coloring in the tank. Watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from an invisible toilet leak. Fix it and save more than 30,000 gallons a year.
- Use your water meter to detect hidden leaks. Simply turn off all taps and water-using appliances. Then check the meter after 15 minutes. If it moved, you have a leak.

### Water Main Flushing

Distribution mains (pipes) convey water to homes, business, and hydrants in your neighborhood. The water entering distribution mains is of very high quality; however, water quality can deteriorate in areas of the distribution mains over time. Water mains flushing is the process of cleaning the interior of water distribution mains by sending a rapid flow of water through the mains. Flushing maintains water quality in several ways. For example, flushing removes sediments like iron and manganese. Although iron and manganese do not themselves pose a health concerns, they can effect the taste, clarity, and color of the water. Additionally, sediments can shield microorganisms from the disinfecting power of the chlorine, contributing to the growth of microorganisms within the distribution mains. Flushing helps remove stale water and ensures the presence of fresh water with sufficient dissolved oxygen and disinfectant levels, and an acceptable taste and smell. During flushing operations in your neighborhood, some short-term deterioration of water quality, through uncommon, is possible. You should avoid tap water for household use as such times. If you do use the tap., allow your cold water to run for a few minutes at full velocity before use, and avoid using hot water, to prevent sediment accumulation in your hot water tank. Please contact us if you have any questions or if you would like more information on our water main flushing schedule.

#### Water Quality Test Results:

**Definitions:** the following tables contain scientific terms and measures, some of which may require explanation.

**Avg:** Regulatory compliance with some MCLs are based on running annual average of monthly samples.

#### 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.

**Level I Assessment:** A level I 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 (MCLG):

The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.

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 Residual Disinfectant Level (MRDL)

The highest level of 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 contamination.

- MFL million fibers per liter (a measure of asbestos)
- NA: not applicable.
- mrem: millirems per year (a measure of radiation absorbed by the body).
- **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 pars per million-or one ounce in 7,350 gallons of water.

- **<u>TT (Treatment Technique):</u>** A required process intended to reduce the level of a contaminant in drinking water.
- ppt parts per trillion, or nanograms per liter (ng/L)
- ppq\_ parts per quadrillion, or pictograms per liter (pg/L)



## City of Kaufman Water Quality Data for Year 2021

| Coliform Bacteria   |  |                                   |                          |   |           |   |               |  |  |  |  |
|---|--|-----------------------------------|--------------------------|---|-----------|---|---------------|--|--|--|--|
| Maximum Contaminant<br>Level Goal   | Total Coliform Maximum<br>Contaminant Level<br>1 positive monthly sample |                                   | Highest No. of Positive  | Fecal<br>Coliform or<br>E. Coli<br>Maximum<br>Contaminant<br>Level<br>0 | E. Coli   | of Positive<br>or Fecal<br>n Samples<br>0 | Violation     | Likely Source of Contamination<br>Naturally present in the environment.  |  |  |  |
| OTE: Reported monthly tests found no fecal coliform bacteria. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, |  |                                   |                          |   |           |   |               |  |  |  |  |
| otentially harmful, bacteria may be present.  |  |                                   |                          |   |           |   |               |  |  |  |  |
|   | Regulated Contaminants   |                                   |                          |   |           |   |               |  |  |  |  |
| Disinfectants and<br>Disinfection By-Products   | Collection Date  | Highest Level<br>Detected         | Range of Levels Detected | MCLG  | MCL       | Units                                     | Violation     | Likely Source of Contamination   |  |  |  |
| Total Haloacetic Acids (HAA5)   | 2021   | 27.00                             | 3.7-27.00                | No goal for<br>the total  | 60        | ppb                                       | No            | By-product of drinking water disinfection.   |  |  |  |
| Total Trihalomethanes (TTHM)  | 2021   | 46.1                              | 19.3-46.1                | No goal for<br>the total  | 80        | ppb                                       | No            | By-product of drinking water disinfection.   |  |  |  |
| Bromate   | 2021   | 69.2                              | 5.27 - 69.2              | 5   | 10        | ppb                                       | No            | By-product of drinking water ozonation.  |  |  |  |
| NOTE: Not all sample results ma<br>sampling should occur in the futu  |  |                                   |                          |   | ts may be | part of an ev                             | aluation to c | determine where compliance   |  |  |  |
| Inorganic Contaminants  | Collection Date  | Highest Level<br>Detected         | Range of Levels Detected | MCLG  | MCL       | Units                                     | Violation     | Likely Source of Contamination   |  |  |  |
| Antimony  | 2021   | Levels lower than<br>detect level | 0 - 0                    | 6   | 6         | ppb                                       | No            | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; and test addition.                                    |  |  |  |
| Arsenic   | 2021   | Levels lower than<br>detect level | 0 - 0                    | 0   | 10        | ppb                                       | No            | Erosion of natural deposits; runoff from orchards; runoff from<br>glass and electronics production wastes.                                 |  |  |  |
| Barium  | 2021   | 0.038                             | 0.037 - 0.038            | 2   | 2         | ppm                                       | No            | Discharge of drilling wastes; discharge from metal refineries;<br>erosion of natural deposits.   |  |  |  |
| Beryllium   | 2021   | Levels lower than<br>detect level | 0 - 0                    | 4   | 4         | ppb                                       | No            | Discharge from metal refineries and coal-burning factories;<br>discharge from electrical, aerospace, and defense industries.               |  |  |  |
| Cadmium   | 2021   | Levels lower than<br>detect level | 0 - 0                    | 5   | 5         | ppb                                       | No            | Corrosion of galvanized pipes; erosion of natural deposits;<br>discharge from metal refineries; runoff from waste batteries and<br>paints. |  |  |  |
| Chromium  | 2021   | Levels lower than<br>detect level | 0 - 0                    | 100   | 100       | ppb                                       | No            | Discharge from steel and pulp mills; erosion of natural deposits.  |  |  |  |
| Cyanide   | 2021   | 86.9                              | 86.9 - 86.9              | 200   | 200       | ppb                                       | No            | Discharge from steel/metal factories; Discharge from plastics<br>and fertilizer factories.   |  |  |  |
| Fluoride  | 2021   | 0.480                             | 0.306 - 0.480            | 4   | 4         | ppm                                       | No            | Erosion of natural deposits; water additive which promotes<br>strong teeth; discharge from fertilizer and aluminum factories.              |  |  |  |
| Mercury   | 2021   | Levels lower than<br>detect level | 0 - 0                    | 2   | 2         | ppb                                       | No            | Erosion of natural deposits; discharge from refineries and<br>factories; runoff from landfills; runoff from cropland.                      |  |  |  |
| Nitrate (measured as Nitrogen)  | 2021   | 0.802                             | 0.110 - 0.802            | 10  | 10        | ppm                                       | No            | Runoff from fertilizer use; leaching from septic tanks; sewage;<br>erosion of natural deposits.  |  |  |  |
| Selenium  | 2021   | Levels lower than<br>detect level | 0 - 0                    | 50  | 50        | ppb                                       | No            | Discharge from petroleum and metal refineries; erosion of<br>natural deposits; discharge from mines.                                       |  |  |  |
| Thallium  | 2021   | Levels lower than<br>detect level | 0 - 0                    | 0.5   | 2         | ppb                                       | No            | Discharge from electronics, glass, and leaching from ore-<br>processing sites; drug factories.   |  |  |  |
| Nitrate Advisory: Nitrate in drinkin<br>baby syndrome. Nitrate levels ma<br>care provider.  |  |                                   |                          |   |           |   |               |  |  |  |  |
| Radioactive Contaminants  | Collection Date  | Highest Level<br>Detected         | Range of Levels Detected | MCLG  | MCL       | Units                                     | Violation     | Likely Source of Contamination   |  |  |  |
| Beta/photon emitters  | 2021   | Levels lower than<br>detect level | 0 - 0                    | 0   | 50        | pCi/L                                     | No            | Decay of natural and man-made deposits.  |  |  |  |
| Gross alpha excluding<br>radon and uranium  | 2021   | Levels lower than<br>detect level | 0 - 0                    | 0   | 15        | pCi/L                                     | No            | Erosion of natural deposits.   |  |  |  |
| Radium  | 2021   | Levels lower than<br>detect level | 0 - 0                    | 0   | 5         | pCi/L                                     | No            | Erosion of natural deposits.   |  |  |  |

| Interline paracitas and<br>Medical Contents         Contents         Page of Lexit Detected<br>Detected         MCL         Udual         Victation         Links Source of Contamination           2.4.5 - TP (Sivec)         2019         Information of the content of the conten of the content of the content of the content of t | Synthetic organic contaminants |                 |                                   |                          |      |     |       |           |   |  |  |  |
|---|--------------------------------|-----------------|-----------------------------------|--------------------------|------|-----|-------|-----------|---|--|--|--|
| 12. 4, 5, 17 (Swiet)         2019         2019         2019         2019         Prescue of sample methods:           2, 4, - D         2019         Levels lower than         0, - 0         70         70         ppb         No.         Rundif from herbicide used on row crops.           Alachor         2021         Levels lower than         0, - 0         1         3         ppb         No.         Rundif from herbicide used on row crops.           Alachor         2011         Levels lower than         0, - 0         1         2         ppb         No.         Rundif from herbicide used on row crops.           Aldicarb Suffoxio         2019         Levels lower than         0, -0         1         4         ppb         No.         Rundif from agricultural pesticide.           Aldicarb Suffoxion         2011         Levels lower than         0, -0         1         4         ppb         No.         Rundif from herbicide used on row crops.           Beruso (la pyreine         2021         Levels lower than         0, -0         0         2         ppb         No.         Rundif from herbicide used on row crops.           Carboturan         2021         Levels lower than         0, -0         0         2         ppb         No.         Rundif from herbicide used on row crops.  | including pesticides and       | Collection Date | Detected                          | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination  |  |  |  |
| A. 4-0         2010         durate lawel         0.0         10         10         100         Moder Term Instruction used on frow lenges.           Aladain         2021         Lewels lower than         0.0         1         3         ppb         No.         Rundif Term Instruction used on row crops.           Aldcarb         2019         Lewels lower than         0.0         1         2         ppb         No.         Rundif Term Instruction used on row crops.           Addcarb Sulfoxide         2019         Lewels lower than         0.0         1         4         ppb         No.         Rundif Term Instruction used on row crops.           Addcarb Sulfoxide         2011         Lewels lower than         0.0         0         200         ppb         No.         Randif Term Instructions.         Randif Term Instructions.           Addcarb Sulfoxide         2021         development         0.0         0         200         ppb         No.         Randif Term Instructions.         Randif Term Instructions.           Carbohuran         2021         Lewels lower than         0.0         0         2         ppb         No.         Randif Term Instructions.  | 2, 4, 5 - TP (Silvex)          | 2019            |                                   | 0 - 0                    | 50   | 50  | ppb   | No        | Residue of banned herbicide.  |  |  |  |
| Addication         2019         Addication         2019         Levels lower fram         0 - 0         1         3         ppb         No         Rundit nom insclude used on hor optic.           Addication         2019         Levels lower fram         0 - 0         1         3         ppb         No         Rundit nom agricultural pesticide.           Addication         2019         Levels lower fram         0 - 0         1         4         ppb         No         Rundit fram agricultural pesticide.           Addication         2011         Levels lower fram         0 - 0         0         200         ppt         No         Rundit fram agricultural pesticide.           Benzo (a) pyrene         2021         Levels lower fram         0 - 0         0         200         ppt         No         Leavels lower fram         and databut           Civicodane         2021         Levels lower fram         0 - 0         0         2         ppb         No         Leavels lower fram         and databut   | 2, 4 - D                       | 2019            |                                   | 0 - 0                    | 70   | 70  | ppb   | No        | Runoff from herbicide used on row crops.  |  |  |  |
| Addication         2019         detect level         0 - 0         1         3         0po         No         Rundiff from agricultural pesticole.           Addication Submode         2019         Levels lover than         0 - 0         1         2         ppb         No         Rundiff from agricultural pesticole.           Addication Submode         2021         Cavels lover than         0 - 0         1         4         ppb         No         Rundiff from agricultural pesticole.           Benuo (a) pyretne         2021         Levels lover than         0 - 0         0         200         ppt         No         Residue of banned termslicide.           Chiordane         2021         Levels lover than<br>detect level         0 - 0         0         2         ppb         No         Residue of banned termslicide.           D locathybraxyl adjuste         2021         Levels lover than<br>detect level         0 - 0         0         200         ppb         No         Rundiff from agricultural pesticole.           D (2 extrybraxyl adjuste         2021         Levels lover than<br>detect level         0 - 0         0         200         ppb         No         Bundards.         Discharge from herbicide used on soybeans and vegetables.           D (2 extrybraxyl adjuste         2021         Levels lover t   | Alachlor                       | 2021            | detect level                      | 0 - 0                    | 0    | 2   | ppb   | No        | Runoff from herbicide used on row crops.  |  |  |  |
| Addicator Suffordie     2019     detect level     0 - 0     1     2     1,00     Note Rundt from agricultural pesticube.       Addicator Suffordie     2019     Levels lover than     0 - 0     1     4     ppb     No.     Rundt from agricultural pesticube.       Attraine     2021     Levels lover than     0 - 0     0     200     ppt     No.     Rundt from agricultural pesticube.       Benzo (a) prene     2021     Levels lover than     0 - 0     40     400     ppb     No.     Laraching from intripids of water storage tanks and distribution interes.       Chiordane     2021     Levels lover than     0 - 0     0     2     ppb     No.     Rundt from herbicide used on rice and affaits.       Difloering     2021     Levels lover than     0 - 0     0     2     ppb     No.     Rundt from herbicide used on right of way.       Difloering     2021     Levels lover than     0 - 0     0     6     ppb     No.     Bundt from herbicide used on right of way.       Difloering     2021     Levels lover than     0 - 0     0     200     ppt     No.     Rundt from herbicide used on softwares, onto       Difloering     2019     Levels lover than     0 - 0     7     7     ppb     No.     Rundt from herbicide used on soft  | Aldicarb                       | 2019            | detect level                      | 0 - 0                    | 1    | 3   | ppb   | No        | Runoff from agricultural pesticide.   |  |  |  |
| Allacath Sulfoxide       2019       detect level       0 - 0       1       4       ppb       No       Kundh Tiom Apricultural pesitore.         Attractive       2021       0.3       0.2 - 0.3       3       3       ppb       No       Rundh Tiom Apricultural pesitore.         Benzo (a) pyrone       2021       Levels lower than<br>detect level       0 - 0       0       200       ppt       No       Leaching from there load on tow cops.         Choldrane       2021       Levels lower than<br>detect level       0 - 0       0       2       ppb       No       Reading do solt fungant used on now cops.         Diapon       2019       Levels lower than<br>detect level       0 - 0       0       2       ppb       No       Rundh Tiom Aprication and attraffa.         Di (2-ethythexyt) adpuate       2021       Levels lower than<br>detect level       0 - 0       0       6       ppb       No       Rundh Tiom Aprications.       Discharge from chemical factories.         Di (2-ethythexyt) phthalate       2021       Levels lower than<br>detect level       0 - 0       0       200       ppt       No       Rundh Tiom Aprication and demical factories.         Di (2-ethythexyt) phthalate       2021       Levels lower than<br>detect level       0 - 0       0       50       ppt <t< td=""><td>Aldicarb Sulfone</td><td>2019</td><td>detect level</td><td>0 - 0</td><td>1</td><td>2</td><td>ppb</td><td>No</td><td>Runoff from agricultural pesticide.</td></t<>  | Aldicarb Sulfone               | 2019            | detect level                      | 0 - 0                    | 1    | 2   | ppb   | No        | Runoff from agricultural pesticide.   |  |  |  |
| Benzo (a) pyrene         2021         Levels lower than<br>devide lower than         0 - 0         0         200         ppt         No         Leaching from limings of water storage tanks and distribution<br>lowes.           Carboruran         2019         devide lower than         0 - 0         40         40         ppb         No         Leaching of soil funigant used on rice and attalfa.           Chlordane         2021         devide lower than         0 - 0         0         2         ppb         No         Residue of banned termiticide.           Did carbytinexy) adpate         2021         Levels lower than         0 - 0         400         400         ppb         No         Discharge from ruber and chemical factories.           Di (2-etty/hexy) adpate         2021         Levels lower than<br>detect level         0 - 0         0         6         ppb         No         Discharge from ruber and chemical factories.           Di/C-etty/hexy) pthalate         2021         Levels lower than<br>detect level         0 - 0         7         7         ppb         No         Discharge from ruber and chemical factories.           Dihomochloropropane (DBCP)         2019         Levels lower than<br>detect level         0 - 0         2         2         ppb         No         Runoff from herbicide used on soybeans, cost<br>pinaapples, and orchands.  | Aldicarb Sulfoxide             | 2019            |                                   | 0 - 0                    | 1    | 4   | ppb   | No        | Runoff from agricultural pesticide.   |  |  |  |
| Behnol (a) pyrene20/21detect level0 - 00200pprNolines.aCatoduran2019Levels lower than<br>detect level0 - 0400400ppbNoReacking of sol fungiant used on nice and alfalla.Dilordane2021Levels lower than<br>detect level0 - 002ppbNoReadsub of hamed termiticide.Diapon2021Levels lower than<br>detect level0 - 0400400ppbNoReadsub of hamed termiticide.Di (2-ethythexy) diptal2021Levels lower than<br>detect level0 - 00066ppbNoDischarge from chemical factories.Di (2-ethythexy) phthalate2021Levels lower than<br>detect level0 - 0066ppbNoDischarge from nubber and detencial factories.Diroseb2019Levels lower than<br>detect level0 - 007777ppbNoResidue of hamed insecticide.Ethylen ditromide2021Levels lower than<br>detect level0 - 0050pptNoDischarge from netroleum ethernics.Ethylen ditromide2019Levels lower than<br>detect level0 - 00400pptNoDischarge from peroleum ethernics.Heptachlor2021Levels lower than<br>detect level0 - 0050pptNoDischarge from metal retrificide.Heptachlor2021Levels lower than<br>detect level0 - 001ppbNoDischarge from  | Atrazine                       | 2021            |                                   | 0.2 - 0.3                | 3    | 3   | ppb   | No        |   |  |  |  |
| Carbotran2019detect level<br>detect level0 · 04040ppNoLeaching of solit nungant used on noe and altala.Chordane2021Levels lover than<br>detect level0 · 002ppbNoResidue of banned termiticide.Di (2-ethythexyl) adpate2021Levels lover than<br>detect level0 · 0400400ppbNoDischarge from chemical factories.Di (2-ethythexyl) phthale2021Levels lover than<br>detect level0 · 06ppbNoDischarge from chemical factories.Dibomochloropropane (DEP)2019Levels lover than<br>detect level0 · 077ppbNoRundf / leaching from oalf unigant used on soybeans, out<br>prinapples, and orchards.Dibomochloropropane (DEP)2019Levels lover than<br>detect level0 · 077ppbNoRundf / leaching from oalf unigant used on soybeans, out<br>prinapples, and orchards.Ethyten dibromide2021Levels lover than<br>detect level0 · 077NoRundf / leaching from nubber and orchards.Heptachior2021Levels lover than<br>detect level0 · 0050pptNoRundf right haveHeptachior2021Levels lover than<br>detect level0 · 001ppbNoDischarge from metal refineries and agricultural chemical<br>factories.Heptachior2021Levels lover than<br>detect level0 · 001ppbNoDischarge from metal refineries and agricultural chemical   | Benzo (a) pyrene               | 2021            | detect level                      | 0 - 0                    | 0    | 200 | ppt   | No        | Leaching from linings of water storage tanks and distribution lines.                        |  |  |  |
| Childbarle2021detect level0 - 002ppbNoRestude training terminoble.Dalapon2019Levels lower han<br>detect level0 - 0200200ppbNoRunoff from herbicide used on rights of way.D (2-ethylhexyl) adptate2021Levels lower han<br>detect level0 - 0400400ppbNoDischarge from chemical factories.D (2-ethylhexyl) phthalate2021Levels lower han<br>detect level0 - 006ppbNoDischarge from chemical factories.Dibromochloropopane (DBCP)2019Levels lower han<br>detect level0 - 077ppbNoRunoff / leaching from soll urnigant used on scybeans, cottr<br>pineapples, and orchards.Endrin2021Levels lower han<br>detect level0 - 077ppbNoRunoff from herbicide used on scybeans and vegetables.Endrin2021Levels lower han<br>detect level0 - 0050pptNoResidue of hanned insectide.Herptachlor epoxide2019Levels lower han<br>detect level0 - 0050pptNoResidue of hanned insectide.Hesptachlor epoxide2021Levels lower han<br>detect level0 - 001ppbNoResidue of hanned insectide.Hesptachlor epoxide2021Levels lower han<br>detect level0 - 001ppbNoResidue of hanned insectide.Hesptachlor epoxide2021Levels lower han<br>detect level0 - 0   | Carbofuran                     | 2019            |                                   | 0 - 0                    | 40   | 40  | ppb   | No        | Leaching of soil fumigant used on rice and alfalfa.   |  |  |  |
| Dalapon2019detect [vov]0 - 0200200ppNoRundt from herbicale used on rights of way.Di (2-ettryhtexyl) adpate2021levels lower han<br>detect [vov]0 - 0400400pbNoDischarge from chemical factories.Di (2-ettryhtexyl) phthalat2021levels lower han<br>detect [vov]0 - 006pbNoDischarge from nubber and chemical factories.Ditromochioropropane (DBCP)2019levels lower han<br>detect [vov]0 - 00200pptNoRundt from herbicale used on soybeans, and regetables.Dinoseb2019levels lower han<br>detect [vov]0 - 077pbNoRundt from herbicale used on soybeans and vegetables.Endrin2021levels lower han<br>detect [vov]0 - 0050pptNoResidue of banned insecticide.Heptachior2021levels lower han<br>detect [vov]0 - 00400pptNoResidue of banned insecticide.Heptachior epoxide2021levels lower han<br>detect [vov]0 - 0010pptNoBreadown of heptachior.Hexachiorocyclopentadien2021levels lower han<br>detect [vov]0 - 0010pptNoBreadown of heptachior.Hexachiorocyclopentadien2021levels lower han<br>detect [vov]0 - 0200pptNoBreadown of heptachior.Hexachiorocyclopentadien2021levels lower han<br>detect [vov]0 - 0200ppt <td< td=""><td>Chlordane</td><td>2021</td><td></td><td>0 - 0</td><td>0</td><td>2</td><td>ppb</td><td>No</td><td>Residue of banned termiticide.</td></td<>  | Chlordane                      | 2021            |                                   | 0 - 0                    | 0    | 2   | ppb   | No        | Residue of banned termiticide.  |  |  |  |
| Di (2-ethythexy) abpaie2021detect tevel0-0400900NoDischarge from chemical ratorbes.Di (2-ethythexy) phthalate2021Levels lower than<br>detect tevel0-006ppbNoDischarge from nubber and chemical factories.Diromochioropropane (DBCP)2019Levels lower than<br>detect tevel0-00200pptNoRunoff from hethicida scotories.Dinoseb2019Levels lower than<br>detect tevel0-077ppbNoRunoff from hethicida scotories.Endrin2021Levels lower than<br>detect tevel0-00200pptNoResidue of banned insecticide.Ethytene dibromide2019Levels lower than<br>detect tevel0-00500pptNoResidue of banned insecticide.Heptachlor2021Levels lower than<br>detect tevel0-00200pptNoResidue of banned insecticide.Heptachlor2021Levels lower than<br>detect tevel0-00200pptNoResidue of banned insecticide.Hexachiorobenzene2021Levels lower than<br>detect tevel0-001ppbNoBischarge from neterineiras and agricultural chemical<br>factories.Hexachiorobenzene2021Levels lower than<br>detect tevel0-0200pptNoBischarge from netericide used on cattle, lumber, an<br>gardens.Metachioropchoend2021Levels lower than<br>detect tevel0-0200200ppt </td <td>Dalapon</td> <td>2019</td> <td>detect level</td> <td>0 - 0</td> <td>200</td> <td>200</td> <td>ppb</td> <td>No</td> <td>Runoff from herbicide used on rights of way.</td>  | Dalapon                        | 2019            | detect level                      | 0 - 0                    | 200  | 200 | ppb   | No        | Runoff from herbicide used on rights of way.  |  |  |  |
| Dit/Certifyineskyi primilation       2021       detect level       0 - 0       0       900       No       Electrange from nubber and chemical factories.         Ditromochloropropane (DBCP)       2019       Levels lower than<br>detect level       0 - 0       0       200       ppt       No       Rundf / Haching from solit lumgiant used on soybeans, cotto<br>pineapples, and orchards.         Endrin       2021       Levels lower than<br>detect level       0 - 0       2       2       ppb       No       Rundf / Haching from solitical used on soybeans, cotto<br>pineapples, and orchards.         Ethylene dibromide       2019       Levels lower than<br>detect level       0 - 0       0       50       ppt       No       Residue of banned insecticide.         Heptachlor       2021       Levels lower than<br>detect level       0 - 0       0       400       ppt       No       Residue of banned termiticide.         Heptachlor epoxide       2021       Levels lower than<br>detect level       0 - 0       0       200       ppt       No       Breakdown of heptachlor.         Hexachlorobenzene       2021       Levels lower than<br>detect level       0 - 0       50       50       ppb       No       Discharge from metal refineries and agricultural chemical<br>factories.         Hexachlorobenzene       2021       Levels lower than<br>detect level  | Di (2-ethylhexyl) adipate      | 2021            |                                   | 0 - 0                    | 400  | 400 | ppb   | No        | Discharge from chemical factories.  |  |  |  |
| Dibromocinicropropane (BBCP)2019detect level0 - 00200pptNopineapples, and orchards.Dinoseb2019Evels (over than<br>detect level0 - 077ppbNoRundff from herbicide used on soybeans and vegetables.Endrin2021Levels (over than<br>detect level0 - 022ppbNoResidue of banned insecticide.Ethylene dibromide2019Levels (over than<br>detect level0 - 0050pptNoResidue of banned insecticide.Heptachlor2021Levels (over than<br>detect level0 - 00400pptNoResidue of banned insecticide.Heptachlor epxide2021Levels (over than<br>detect level0 - 00400pptNoResidue of banned insecticide.Hexachlorobenzene2021Levels (over than<br>detect level0 - 001ppbNoBreakdown of heptachlor.Hexachlorocyclopentadiene2021Levels (over than<br>detect level0 - 05050ppbNoBicharge from metal refineries and agricultural chemical<br>factories.Lindane2021Levels (over than<br>detect level0 - 0200200pptNoRunoff / Jeaching from insecticide used on cattle, lumber, and<br>garens.Methoxychlor2021Levels (over than<br>detect level0 - 0200200ppbNoRunoff / Jeaching from insecticide used on cattle, lumber, and<br>garens.Pentachlorophenol2019Levels (  | Di (2-ethylhexyl) phthalate    | 2021            |                                   | 0 - 0                    | 0    | 6   | ppb   | No        | Discharge from rubber and chemical factories.   |  |  |  |
| Lindseb2019detect level0 · 077111   | Dibromochloropropane (DBCP)    | 2019            |                                   | 0 - 0                    | 0    | 200 | ppt   | No        | Runoff / leaching from soil fumigant used on soybeans, cotton,<br>pineapples, and orchards. |  |  |  |
| Endmin2021detect level0 - 0222pp0NoResidue of banned insecticide.Ethylene dibromide2019Levels lower than<br>detect level0 - 0050pptNoDischarge from petroleium refineries.Heptachlor2021Levels lower than<br>detect level0 - 00400pptNoResidue of banned termiticide.Heptachlor epoxide2021Levels lower than<br>detect level0 - 00200pptNoBreakdown of heptachlor.Hexachlorobenzene2021Levels lower than<br>  | Dinoseb                        | 2019            |                                   | 0 - 0                    | 7    | 7   | ppb   | No        | Runoff from herbicide used on soybeans and vegetables.                                      |  |  |  |
| Lethylene dibformide2019detect level0 - 0050pptNoDischarge from petroleum refineries.Heptachlor2021Levels lower than<br>detect level0 - 00400pptNoResidue of banned termiticide.Heptachlor epoxide2021Levels lower than<br>detect level0 - 00200pptNoBreakdown of heptachlor.Hexachlorobenzene2021Levels lower than<br>detect level0 - 001ppbNoBreakdown of heptachlor.Hexachlorocyclopentadiene2021Levels lower than<br>detect level0 - 05050pptNoDischarge from metal refineries and agricultural chemical<br>factories.Lindane2021Levels lower than<br>detect level0 - 0200200pptNoRunoff / leaching from insecticide used on cattle, lumber, an<br>gardens.Methoxychlor2021Levels lower than<br>detect level0 - 04040ppbNoRunoff / leaching from insecticide used on apples, potatoes,<br>atfalfa, and livestock.Oxamy [Vydate]2019Levels lower than<br>detect level0 - 0200200ppbNoRunoff / leaching from insecticide used on apples, potatoes,<br>tomatoes.Pentachlorophenol2019Levels lower than<br>detect level0 - 001ppbNoRunoff / leaching from insecticide used on apples, potatoes,<br>tomatoes.Pictoram2019Levels lower than<br>detect level0 - 0500500ppbNoHerbi  | Endrin                         | 2021            |                                   | 0 - 0                    | 2    | 2   | ppb   | No        | Residue of banned insecticide.  |  |  |  |
| Heptachlor2021detect level0 + 00400pptNoResidue of barried termination.Heptachlor epoxide2021Levels lower than<br>detect level0 - 00200pptNoBreakdown of heptachlor.Hexachlorobenzene2021Levels lower than<br>detect level0 - 001ppbNoDischarge from metal refineries and agricultural chemical<br>factories.Hexachlorocyclopentadiene2021Levels lower than<br>detect level0 - 05050pptNoDischarge from chemical factories.Lindane2021Levels lower than<br>detect level0 - 0200200pptNoRunoff / leaching from insecticide used on cattle, lumber, an<br>gardens.Methoxychlor2021Levels lower than<br>detect level0 - 0200200pptNoRunoff / leaching from insecticide used on fulls, vegetables,<br>affafa, and livestock.Oxamyl [Vydate]2019Levels lower than<br>detect level0 - 0200200ppbNoRunoff / leaching from insecticide used on apples, potatoes,<br>tomatoes.Pentachlorophenol2019Levels lower than<br>detect level0 - 001ppbNoDischarge from wood preserving factories.Picloram20210.120.08 - 0.1244ppbNoHerbicide runoff.Simazine20210.120.08 - 0.1244ppbNoRunoff / leaching from insecticide used on cotton and cattle.Volatile Organic Contaminatts   | Ethylene dibromide             | 2019            |                                   | 0 - 0                    | 0    | 50  | ppt   | No        | Discharge from petroleium refineries.   |  |  |  |
| Heptachlor epoxide2021detect level0 - 00200pptNoBreakdown of heptachlor.Hexachlorobenzene2021Levels lower than<br>detect level0 - 001ppbNoDischarge from metal refineries and agricultural chemical<br>factories.Hexachlorocyclopentadiene2021Levels lower than<br>detect level0 - 05050ppbNoDischarge from chemical factories.Lindane2021Levels lower than<br>detect level0 - 0200200pptNoRunoff / leaching from insecticide used on cattle, lumber, an<br>gardens.Methoxychlor2021Levels lower than<br>detect level0 - 04040ppbNoRunoff / leaching from insecticide used on fruits, vegetables,<br>alfalfa, and livestock.Oxamyl [Vydate]2019Levels lower than<br>detect level0 - 0200200ppbNoRunoff / leaching from insecticide used on apples, potatoes,<br>tomatces.Pentachlorophenol2019Levels lower than<br>detect level0 - 001ppbNoBischarge from wood preserving factories.Pictoram2019Levels lower than<br>detect level0 - 0500500ppbNoHerbicide runoff.Simazine20210.120.08 - 0.1244ppbNoHerbicide runoff.Toxaphene20210.120.08 - 0.1244ppbNoRunoff / leaching from insecticide used on cotton and cattle.Volatile Organic ContaminantsColl  | Heptachlor                     | 2021            |                                   | 0 - 0                    | 0    | 400 | ppt   | No        | Residue of banned termiticide.  |  |  |  |
| Hexachlorobenzene2021detect level0 - 001ppbNofactories.Hexachlorocyclopentadiene2021Levels lower than<br>detect level0 - 05050ppbNoDischarge from chemical factories.Lindane2021Levels lower than<br>detect level0 - 0200200pptNoRunoff / leaching from insecticide used on cattle, lumber, an<br>gardens.Methoxychlor2021Levels lower than<br>detect level0 - 04040ppbNoRunoff / leaching from insecticide used on fruits, vegetables,<br>atfafa, and livestock.Oxamyl [Vydate]2019Levels lower than<br>detect level0 - 0200200ppbNoRunoff / leaching from insecticide used on apples, potatoes,<br>atfafa, and insecticide used on apples, potatoes,<br>atfafa, and insecticide used on apples, potatoes,<br>atfafa, and insecticide used on apples, potatoes,<br>detect levelOxamyl [Vydate]2019Levels lower than<br>detect level0 - 001ppbNoDischarge from wood preserving factories.Pentachlorophenol2019Levels lower than<br>detect level0 - 0500500ppbNoHerbicide runoff.Simazine20210.120.08 - 0.1244ppbNoRunoff / leaching from insecticide used on cotton and cattle.Toxaphene2021Levels lower than<br>detect level0 - 003ppbNoRunoff / leaching from insecticide used on cotton and cattle.Volatile Organic ContaminantsCollection   | Heptachlor epoxide             | 2021            |                                   | 0 - 0                    | 0    | 200 | ppt   | No        | Breakdown of heptachlor.  |  |  |  |
| Hexacholocyclopentadiene2021detect level0 - 0505050ppbNoDischarge from chemical factories.Lindane2021Levels lower than<br>detect level0 - 0200200pptNoRunoff / leaching from insecticide used on cattle, lumber, an<br>gardens.Methoxychlor2021Levels lower than<br>detect level0 - 04040ppbNoRunoff / leaching from insecticide used on fults, vegetables,<br>alfalfa, and livestock.Oxamyl [Vydate]2019Levels lower than<br>detect level0 - 001ppbNoRunoff / leaching from insecticide used on apples, potatoes,<br>tomatoes.Pentachlorophenol2019Levels lower than<br>detect level0 - 001ppbNoDischarge from wood preserving factories.Picloram2019Levels lower than<br>detect level0 - 0500500ppbNoHerbicide runoff.Simazine20210.120.08 - 0.1244ppbNoRunoff / leaching from insecticide used on cotton and cattle.Volatile Organic ContaminantsCollection DateDetected0 - 003ppbNoRunoff / leaching from insecticide used on cotton and cattle.1, 1, 1 - Trichloroethane2021Levels lower than<br>detect level0 - 0200200ppbNoDischarge from metal degreasing sites and other factories.1, 1, 2, Trichloroethane2021Levels lower than<br>detect level0 - 0200200ppbNo   | Hexachlorobenzene              | 2021            |                                   | 0 - 0                    | 0    | 1   | ppb   | No        |   |  |  |  |
| Lindane2021detect level0 - 0200200pptNogardens.Methoxychlor2021Levels lower than<br>detect level0 - 04040ppbNoRunoff / leaching from insecticide used on fruits, vegetables,<br>atfat, and it vestock.Oxamyl [Vydate]2019Levels lower than<br>detect level0 - 0200200ppbNoRunoff / leaching from insecticide used on apples, potatoes,<br>tomatoes.Pentachlorophenol2019Levels lower than<br>detect level0 - 001ppbNoDischarge from wood preserving factories.Pictoram2019Levels lower than<br>detect level0 - 0500500ppbNoHerbicide runoff.Simazine20210.120.08 - 0.1244ppbNoRunoff / leaching from insecticide used on cotton and cattle.Volatile Organic ContaminantsCollection DateHignest Level<br>Detected0 - 003ppbNoRunoff / leaching from insecticide used on cotton and cattle.1, 1, 1 - Trichloroethane2021Levels lower than<br>detect level0 - 0200200ppbNoDischarge from metal degreasing sites and other factories.1, 1, 1 - Trichloroethane2021Levels lower than<br>detect level0 - 0200200ppbNoDischarge from metal degreasing sites and other factories.1, 1, 2, Trichloroethane2021Levels lower than<br>detect level0 - 035ppbNoDischarge from metal degreasing   | Hexachlorocyclopentadiene      | 2021            | detect level                      | 0 - 0                    | 50   | 50  | ppb   | No        |   |  |  |  |
| Metrix/cition         2021         detect level         0 - 0         40         <   | Lindane                        | 2021            |                                   | 0 - 0                    | 200  | 200 | ppt   | No        | Runoff / leaching from insecticide used on cattle, lumber, and<br>gardens.                  |  |  |  |
| Oxarity (vydate)       2019       detect level       0 - 0       200       200       ppb       No       tomatoes.         Pentachlorophenol       2019       Levels lower than<br>detect level       0 - 0       0       1       ppb       No       Discharge from wood preserving factories.         Picloram       2019       Levels lower than<br>detect level       0 - 0       500       500       ppb       No       Herbicide runoff.         Simazine       2021       0.12       0.08 - 0.12       4       4       ppb       No       Herbicide runoff.         Toxaphene       2021       Levels lower than<br>detect level       0 - 0       0       3       ppb       No       Runoff / leaching from insecticide used on cotton and cattle.         Volatile Organic Contaminants       Collection Date       Detected       Range of Levels Detected       MCLG       MCL       Units       Violation       Likely Source of Contamination         1, 1, 1 - Trichloroethane       2021       Levels lower than<br>detect level       0 - 0       200       200       ppb       No       Discharge from metal degreasing sites and other factories.         1, 1, 2 - Trichloroethane       2021       Levels lower than<br>detect level       0 - 0       3       5       ppb       No       Discharge fr  | Methoxychlor                   | 2021            |                                   | 0 - 0                    | 40   | 40  | ppb   | No        | Runoff / leaching from insecticide used on fruits, vegetables,<br>alfalfa, and livestock.   |  |  |  |
| Pentachiorophenol       2019       detect level       0 - 0       0       1       ppb       No       Discharge from wood preserving factories.         Picloram       2019       Levels lower than<br>detect level       0 - 0       500       500       ppb       No       Herbicide runoff.         Simazine       2021       0.12       0.08 - 0.12       4       4       ppb       No       Herbicide runoff.         Toxaphene       2021       Levels lower than<br>detect level       0 - 0       0       3       ppb       No       Runoff / leaching from insecticide used on cotton and cattle.         Volatile Organic Contaminants       Collection Date       Detected<br>Highest Level       Range of Levels Detected       MCLG       MCL       Units       Violation       Likely Source of Contamination         1, 1, 1 - Trichloroethane       2021       Levels lower than<br>detect level       0 - 0       200       200       ppb       No       Discharge from metal degreasing sites and other factories.         1, 1, 2 - Trichloroethane       2021       Levels lower than<br>detect level       0 - 0       3       5       ppb       No       Discharge from metal degreasing sites and other factories.  | Oxamyl [Vydate]                | 2019            |                                   | 0 - 0                    | 200  | 200 | ppb   | No        | Runoff / leaching from insecticide used on apples, potatoes, and<br>tomatoes.               |  |  |  |
| Pictoram     2019     detect level     0 - 0     500     500     500     ppb     No     Pierolade runorr.       Simazine     2021     0.12     0.08 - 0.12     4     4     ppb     No     Herbicide runofr.       Toxaphene     2021     Levels lower than<br>detect level     0 - 0     0     3     ppb     No     Runoff / leaching from insecticide used on cotton and cattle.       Volatile Organic Contaminants     Collection Date     Range of Levels Detected     MCLG     MCL     Units     Violation     Likely Source of Contamination       1, 1, 1 - Trichloroethane     2021     Levels lower than<br>detect level     0 - 0     3     5     npb     No     Discharge from metal degreasing sites and other factories.       1, 1, 2 - Trichloroethane     2021     Levels lower than<br>detect level     0 - 0     3     5     npb     No     Discharge from industrial chemical factories.   | Pentachlorophenol              | 2019            |                                   | 0 - 0                    | 0    | 1   | ppb   | No        | Discharge from wood preserving factories.   |  |  |  |
| Toxaphene     2021     Levels lower than<br>detect level     0 - 0     0     3     ppb     No     Runoff / leaching from insecticide used on cotton and cattle.       Volatile Organic Contaminants     Collection Date     Detected     Range of Levels Detected     MCLG     MCL     Units     Violation     Likely Source of Contamination       1, 1, 1 - Trichloroethane     2021     Levels lower than<br>detect level     0 - 0     200     200     ppb     No     Discharge from metal degreasing sites and other factories.       1, 1, 2 - Trichloroethane     2021     Levels lower than<br>detect level     0 - 0     3     5     ppb     No     Discharge from industrial chemical factories.  | Picloram                       | 2019            |                                   | 0 - 0                    | 500  | 500 | ppb   | No        | Herbicide runoff.   |  |  |  |
| Instruction         2021         detect level         0 - 0         0         3         pp0         No         Runotr / leacning from insecticide used on cotton and cattle.           Volatile Organic Contaminants         Collection Date         Highest Level<br>Detected         Range of Levels Detected         MCLG         MCL         Units         Violation         Likely Source of Contamination           1, 1, 1 - Trichloroethane         2021         Levels lower than<br>detect level         0 - 0         200         200         ppb         No         Discharge from metal degreasing sites and other factories.           1, 1, 2 - Trichloroethane         2021         Levels lower than<br>detect level         0 - 0         3         5         ppb         No         Discharge from metal degreasing sites and other factories.   | Simazine                       | 2021            | 0.12                              | 0.08 - 0.12              | 4    | 4   | ppb   | No        | Herbicide runoff.   |  |  |  |
| Volatile Organic Contaminants         Collection Date         Detected         Range of Levels Detected         MCLG         MCL         Units         Violation         Likely Source of Contamination           1, 1, 1 - Trichloroethane         2021         Levels lower than<br>detect level         0 - 0         200         200         ppb         No         Discharge from metal degreasing sites and other factories.           1, 1, 2 - Trichloroethane         2021         Levels lower than<br>detect level         0 - 0         3         5         ppb         No         Discharge from industrial charging f   | Toxaphene                      | 2021            | detect level                      | 0 - 0                    | 0    | 3   | ppb   | No        | Runoff / leaching from insecticide used on cotton and cattle.                               |  |  |  |
| 1, 1, 1 - Inchloroethane     2021     detect level     0 - 0     200     200     ppb     No     Discharge from industrial degreasing sites and other factories.       1, 1, 2 - Trichloroethane     2021     Levels lower than     0 - 0     3     5     ppb     No     Discharge from industrial chamical factories.   | Volatile Organic Contaminants  | Collection Date |                                   | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination  |  |  |  |
|   | 1, 1, 1 - Trichloroethane      | 2021            |                                   | 0 - 0                    | 200  | 200 | ppb   | No        | Discharge from metal degreasing sites and other factories.                                  |  |  |  |
| detect level  | 1, 1, 2 - Trichloroethane      | 2021            | Levels lower than<br>detect level | 0 - 0                    | 3    | 5   | ppb   | No        | Discharge from industrial chemical factories.   |  |  |  |
| 1, 1 - Dichloroethylene 2021 Levels lower than detect level 0 - 0 7 7 ppb No Discharge from industrial chemical factories.  | 1, 1 - Dichloroethylene        | 2021            | Levels lower than                 | 0 - 0                    | 7    | 7   | ppb   | No        | Discharge from industrial chemical factories.   |  |  |  |
| 1, 2, 4 - Trichlorobenzene     2021     Levels lower than detect level     0 - 0     70     70     ppb     No     Discharge from textile-finishing factories.   | 1, 2, 4 - Trichlorobenzene     | 2021            | Levels lower than                 | 0 - 0                    | 70   | 70  | ppb   | No        | Discharge from textile-finishing factories.   |  |  |  |
| 1, 2 - Dichloroethane     2021     Levels lower than detect level     0 - 0     0     5     ppb     No     Discharge from industrial chemical factories.  | 1, 2 - Dichloroethane          | 2021            | Levels lower than                 | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from industrial chemical factories.   |  |  |  |
| 1, 2 - Dichloropropane     2021     Levels lower than detect level     0 - 0     0     5     ppb     No     Discharge from industrial chemical factories.   | 1, 2 - Dichloropropane         | 2021            |                                   | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from industrial chemical factories.   |  |  |  |
|   | Benzene                        | 2021            | Levels lower than<br>detect level | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from factories; leaching from gas storage tanks and<br>landfills.                 |  |  |  |
|   | Carbon Tetrachloride           | 2021            | Levels lower than<br>detect level | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from chemical plants and other industrial activities.                             |  |  |  |

## City of Kaufman Water Quality Data for Year 2021 (Cont.)

## City of Kaufman Water Quality Data for Year 2021 (Cont.)

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| Volatile Organic Contaminants  | Collection Date   | Detected   | Range of Levels Detected  | MCLG  | MCL  | Units   | Violation   | Likely Source of Contamination  |  |  |  |  |  |
|--|---|--|---|---|--|---|---|---|--|--|--|--|--|
| Chlorobenzene  | 2021  | Levels lower than<br>detect level  | 0 - 0   | 100   | 100  | ppb   | No  | Discharge from chemical and agricultural chemical factories.  |  |  |  |  |  |
| Dichloromethane  | 2021  | Levels lower than<br>detect level  | 0 - 0   | 0   | 5  | ppb   | No  | Discharge from pharmaceutical and chemical factories.   |  |  |  |  |  |
| Ethylbenzene   | 2021  | Levels lower than<br>detect level  | 0 - 0   | 0   | 700  | ppb   | No  | Discharge from petroleum refineries.  |  |  |  |  |  |
| Styrene  | 2021  | Levels lower than<br>detect level  | 0 - 0   | 100   | 100  | ppb   | No  | Discharge from rubber and plastic factories; leaching from<br>landfills.  |  |  |  |  |  |
| Tetrachloroethylene  | 2021  | Levels lower than<br>detect level  | 0 - 0   | 0   | 5  | ppb   | No  | Discharge from factories and dry cleaners.  |  |  |  |  |  |
| Toluene  | 2021  | Levels lower than<br>detect level  | 0 - 0   | 1   | 1  | ppm   | No  | Discharge from petroleum factories.   |  |  |  |  |  |
| Trichloroethylene  | 2021  | Levels lower than<br>detect level  | 0 - 0   | 0   | 5  | ppb   | No  | Discharge from metal degreasing sites and other factories.  |  |  |  |  |  |
| Vinyl Chloride   | 2021  | Levels lower than<br>detect level  | 0 - 0   | 0   | 2  | ppb   | No  | Leaching from PVC piping; discharge from plastics factories.  |  |  |  |  |  |
| Xylenes  | 2021  | Levels lower than<br>detect level  | 0 - 0   | 10  | 10   | ppm   | No  | Discharge from petroleum factories; discharge from chemical factories.  |  |  |  |  |  |
| cis - 1, 2 - Dichloroethylene  | 2021  | Levels lower than<br>detect level  | 0 - 0   | 70  | 70   | ppb   | No  | Discharge from industrial chemical factories.   |  |  |  |  |  |
| o - Dichlorobenzene  | 2021  | Levels lower than<br>detect level  | 0 - 0   | 600   | 600  | ppb   | No  | Discharge from industrial chemical factories.   |  |  |  |  |  |
| p - Dichlorobenzene  | 2021  | Levels lower than<br>detect level  | 0 - 0   | 75  | 75   | ppb   | No  | Discharge from industrial chemical factories.   |  |  |  |  |  |
| trans - 1, 2 - Dicholoroethylene   | 2021  | Levels lower than<br>detect level  | 0 - 0   | 100   | 100  | ppb   | No  | Discharge from industrial chemical factories.   |  |  |  |  |  |
| Turbidity  |   |  |   |   |  |   |   |   |  |  |  |  |  |
| Limit<br>(Treatment Technique) Level Detected Violation Likely Source of Contamination   |   |  |   |   |  |   |   |   |  |  |  |  |  |
| (Treatment Technique)         Level Detected         Violation         Likely Source or Contamination           Highest single measurement         1 NTU         0.39 NTU         No         Soil runoff.  |   |  |   |   |  |   |   |   |  |  |  |  |  |
|  | ) meeting limit   |  | 0.3 NTU   |   |  |   |   |   |  |  |  |  |  |
| NOTE: 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.  Maximum Residual Disinfectant Level   |   |  |   |   |  |   |   |   |  |  |  |  |  |
| NOTE: Turbidity is a measurement<br>of our filtration.   | ent of the cloudir  | ness of the water ca   |   |   | cause it is  | a good indic  | ator of wate  |   |  |  |  |  |  |
|  | ent of the cloudin  | Average Level of<br>Quarterly Data   |   |   | cause it is  | a good indic  | ator of wate  |   |  |  |  |  |  |
| of our filtration.   |   | Average Level of   | Maximum Res   | Highest<br>Result of  | cause it is  | a good indic  | Units   | r quality and the effectiveness   |  |  |  |  |  |
| of our filtration.<br>Disinfectant Type<br>Chlorine Residual (Chloramines)<br>Chlorine Dioxide   | Year<br>2021<br>2021  | Average Level of<br>Quarterly Data<br>2.9<br>0   | Maximum Res<br>Lowest Result<br>of Single Sample<br>1.6<br>0  | Highest<br>Result of<br>Single Sample<br>4.2<br>0   | MRDL<br>4.00<br>0.80   | a good indic<br>Int Leve<br>MRDLG<br><4.0<br>0.80   | Units   | r quality and the effectiveness Source of Chemical Disinfectant used to control microbes. Disinfectant.   |  |  |  |  |  |
| of our filtration. Disinfectant Type Chlorine Residual (Chloramines)   | <b>Year</b><br>2021   | Average Level of<br>Quarterly Data<br>2.9  | Maximum Res<br>Lowest Result<br>of Single Sample<br>1.6   | Highest<br>Result of<br>Single Sample<br>4.2  | cause it is<br>infecta<br>MRDL<br>4.00   | a good indic<br>int Leve<br>MRDLG<br><4.0   | Units   | r quality and the effectiveness Source of Chemical Disinfectant used to control microbes.   |  |  |  |  |  |
| of our filtration.<br>Disinfectant Type<br>Chlorine Residual (Chloramines)<br>Chlorine Dioxide   | Year<br>2021<br>2021<br>2021<br>2021<br>ired to maintain  | Average Level of<br>Quarterly Data<br>2.9<br>0<br>0.105<br>a minimum chlorine  | Lowest Result<br>of Single Sample   | Highest<br>Result of<br>Single Sample<br>4.2<br>0<br>0.97   | <b>MRDL</b><br>4.00<br>0.80<br>1.00  | a good indic<br>Int Leve<br>MRDLG<br><4.0<br>0.80<br>N/A  | Units<br>ppm<br>ppm<br>ppm  | Source of Chemical         Disinfectant used to control microbes.         Disinfectant.   |  |  |  |  |  |
| Disinfectant Type Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide Chlorite NOTE: Water providers are requ   | Year<br>2021<br>2021<br>2021<br>2021<br>ired to maintain  | Average Level of<br>Quarterly Data<br>2.9<br>0<br>0.105<br>a minimum chlorine  | Lowest Result<br>of Single Sample           1.6           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           14 parts per million (ppm).   | Highest<br>Result of<br>Single Sample<br>4.2<br>0<br>0.97   | MRDL           4.00           0.80           1.00           ion (ppm) f  | MRDLG<br><4.0<br>0.80<br>N/A<br>or systems of   | Units<br>ppm<br>ppm<br>ppm  | Source of Chemical         Disinfectant used to control microbes.         Disinfectant.   |  |  |  |  |  |
| Disinfectant Type Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide Chlorite NOTE: Water providers are requ   | Year<br>2021<br>2021<br>2021<br>2021<br>ired to maintain  | Average Level of<br>Quarterly Data<br>2.9<br>0.105<br>a minimum chlorine<br>ween 0.5 (ppm) and   | Maximum Res           Lowest Result<br>of Single Sample           1.6           0           1           0           1           0           0           0           0           0           0 | Highest<br>Result of<br>Single Sample<br>4.2<br>0<br>0.97<br>5 parts per mill<br>Organic C  | MRDL<br>4.00<br>0.80<br>1.00<br>ion (ppm) f  | a good indic<br>Int Leve<br>MRDLG<br><4.0<br>0.80<br>N/A<br>for systems of  | Units<br>ppm<br>ppm<br>disinfecting v                                 | Source of Chemical         Disinfectant used to control microbes.         Disinfectant.   |  |  |  |  |  |
| Disinfectant Type<br>Disinfectant Type<br>Chlorine Residual (Chloramines)<br>Chlorine Dioxide<br>Chlorite<br>NOTE: Water providers are requ<br>average chlorine disinfection resi  | Year<br>2021<br>2021<br>2021<br>ired to maintain<br>dual level of bet<br>Collection Date  | Average Level of<br>Quarterly Data<br>2.9<br>0.105<br>a minimum chlorine<br>ween 0.5 (ppm) and   | Maximum Res         Lowest Result         of Single Sample         1.6         0         e disinfection residual level of 0         j4 parts per million (ppm).         Total         Highest Level         Detected  | Highest<br>Result of<br>Single Sample<br>4.2<br>0<br>0.97<br>5 parts per mill   | Antering and the second | a good indic<br>Int Leve<br>MRDLG<br><4.0<br>0.80<br>N/A<br>or systems of<br>Urr  | Units<br>ppm<br>ppm<br>ppm  | Gource of Chemical     Source of Chemical Disinfectant used to control microbes. Disinfectant. Disinfectant. with chloramines and an annual Likely Source of Contamination  |  |  |  |  |  |
| Disinfectant Type Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide Chlorite NOTE: Water providers are requ   | Year<br>2021<br>2021<br>2021<br>2021<br>ired to maintain<br>dual level of bet   | Average Level of<br>Quarterly Data<br>2.9<br>0.105<br>a minimum chlorine<br>ween 0.5 (ppm) and   | Maximum Res           Lowest Result<br>of Single Sample           1.6           0           1           0           1           0           0           0           0           0           0 | Highest<br>Result of<br>Single Sample<br>4.2<br>0<br>0.97<br>5 parts per mill<br>Organic (C<br>Range of Level<br>3.69 - 4<br>2.01 - 4   | cause it is<br>infecta<br>MRDL<br>4.00<br>0.80<br>1.00<br>ion (ppm) f<br>carbon<br>s Detected<br>.66<br>.01  | a good indic<br>mt Leve<br>MRDLG<br><4.0<br>0.80<br>N/A<br>or systems of<br>Um<br>pp  | Units<br>ppm<br>ppm<br>ppm<br>disinfecting v                          | Source of Chemical<br>Disinfectant used to control microbes.<br>Disinfectant.<br>Disinfectant.<br>with chloramines and an annual  |  |  |  |  |  |
| Disinfectant Type Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide Chlorite NOTE: Water providers are requ average chlorine disinfection resi Source Water   | Year<br>2021<br>2021<br>ired to maintain<br>dual level of beta<br>Collection Date<br>2021   | Average Level of<br>Quarterly Data<br>2.9<br>0.105<br>a minimum chlorine<br>ween 0.5 (ppm) and   | Maximum Res         Lowest Result<br>of Single Sample         1.6         0   | Highest<br>Result of<br>Single Sample<br>4.2<br>0<br>0.97<br>5.5 parts per mill<br>Organic (<br>Range of Level<br>3.69 - 4  | cause it is<br>infecta<br>MRDL<br>4.00<br>0.80<br>1.00<br>ion (ppm) f<br>carbon<br>s Detected<br>.66<br>.01  | a good indic<br>mt Leve<br>MRDLG<br><4.0<br>0.80<br>N/A<br>or systems of<br>Um<br>pp  | Units<br>ppm<br>ppm<br>ppm<br>ppm<br>disinfecting v                   | Source of Chemical         Disinfectant used to control microbes.         Disinfectant.         Disinfectant.         With chloramines and an annual         Likely Source of Contamination         Naturally present in the environment.   |  |  |  |  |  |
| Disinfectant Type Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide Chlorite NOTE: Water providers are requ average chlorine disinfection resi Source Water Drinking Water Removal Ratio NOTE: Total organic carbon (TO does not have unacceptable leve   | Year<br>2021<br>2021<br>2021<br>2021<br>2021<br>2021<br>2021<br>202   | Average Level of<br>Quarterly Data<br>2.9<br>0<br>0.105<br>a minimum chlorine<br>ween 0.5 (ppm) and<br>offects. The disinf<br>By-products of disi                      | Maximum Res           Lowest Result<br>of Single Sample           1.6         0           0         0           a disinfection residual level of 0         0           14 parts per million (ppm).         TOtal           Highest Level           Detected         4.66           4.01         46.0           ectant can combine with TOC to<br>infection include trihalomethane   | Highest<br>Result of<br>Single Sample<br>4.2<br>0<br>0.97<br>5 parts per mill<br>Organic (C<br>Range of Level<br>3.69 - 4<br>2.01 - 4<br>1.9 - 44<br>p form disinfect<br>is (THMs) and H  | Cause it is<br>infecta<br>MRDL<br>4.00<br>0.80<br>1.00<br>ion (ppm) f<br>Carbon<br>S Detected<br>.66<br>.01<br>.00<br>on by-prod<br>aloacetic z  | a good indic<br>mr Leve<br>MRDLG<br><4.0<br>0.80<br>N/A<br>or systems of<br>Un<br>PFP<br>PF<br>PF<br>pf<br>v fer<br>ucts. Disinfe<br>acids (HAA)  | Units Units Uppm Upm Upm Upm Upm Upm Upm Upm Upm Up                   | Source of Chemical         Disinfectant used to control microbes.         Disinfectant.         Disinfectant.         with chloramines and an annual         Likely Source of Contamination         Naturally present in the environment.         N/A         sesary to ensure that water   |  |  |  |  |  |
| Disinfectant Type Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide Chlorite NOTE: Water providers are requ average chlorine disinfection resi Source Water Drinking Water Removal Ratio NOTE: Total organic carbon (TO   | Year<br>2021<br>2021<br>2021<br>2021<br>2021<br>2021<br>2021<br>202   | Average Level of<br>Quarterly Data<br>2.9<br>0<br>0.105<br>a minimum chlorine<br>ween 0.5 (ppm) and<br>offects. The disinf<br>By-products of disi                      | Maximum Res           Lowest Result<br>of Single Sample           1.6           0           disinfection residual level of 0           d 4 parts per million (ppm).           Total           Highest Level           Detected           4.66           4.01           46.0           ectant can combine with TOCt to<br>infection include trihalomethane<br>zess divided by the percent of T   | Highest<br>Result of<br>Single Sample<br>4.2<br>0<br>0.97<br>5 parts per mill<br>Organic (<br>Range of Level<br>3.69 - 4<br>2.01 - 4<br>1.9 - 44<br>o form disinfecti<br>is (THMs) and f<br>OC required by                              | MRDL<br>4.00<br>0.80<br>1.00<br>ion (ppm) f<br>Carbon<br>s Detected<br>.66<br>.01<br>5.0<br>on by-prod<br>on by-prod<br>on by-prod<br>on by-prod   | a good indic<br>mr Leve<br>MRDLG<br><4.0<br>0.80<br>N/A<br>or systems of<br>Un<br>PP<br>PF<br>% rem<br>vectors (HAA)<br>be removed.   | Units Units Uppm Upm Upm Upm Upm Upm Upm Upm Upm Up                   | Source of Chemical         Disinfectant used to control microbes.         Disinfectant.         Disinfectant.         with chloramines and an annual         Likely Source of Contamination         Naturally present in the environment.         N/A         sesary to ensure that water   |  |  |  |  |  |
| Disinfectant Type Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide Chlorite NOTE: Water providers are requ average chlorine disinfection resi Source Water Drinking Water Removal Ratio NOTE: Total organic carbon (TO does not have unacceptable leve   | Year<br>2021<br>2021<br>2021<br>2021<br>2021<br>2021<br>2021<br>202   | Average Level of<br>Quarterly Data<br>2.9<br>0.105<br>a minimum chlorine<br>ween 0.5 (ppm) and<br>n effects. The disinf<br>By-products of disi<br>y the treatment proc | Maximum Res           Lowest Result<br>of Single Sample           1.6           0           disinfection residual level of 0           d 4 parts per million (ppm).           Total           Highest Level<br>Detected           4.66           4.01           46.0           cetant can combine with TOCt to<br>infection include trihalomethane<br>zess divided by the percent of T           Cryptospe  | Highest<br>Result of<br>Single Sample<br>4.2<br>0<br>0.97<br>5 parts per mill<br>Organic (<br>Range of Level<br>3.69 - 4<br>2.01 - 4<br>1.9 - 44<br>o form disinfecti<br>is (THMs) and f<br>OC required by                              | MRDL<br>4.00<br>0.80<br>1.00<br>ion (ppm) f<br>Carbon<br>s Detected<br>.66<br>.01<br>5.0<br>on by-prod<br>on by-prod<br>on by-prod<br>on by-prod   | a good indic<br>mr Leve<br>MRDLG<br><4.0<br>0.80<br>N/A<br>or systems of<br>Un<br>PP<br>PF<br>% rem<br>vectors (HAA)<br>be removed.   | Units Units Uppm Upm Upm Upm Upm Upm Upm Upm Upm Up                   | Source of Chemical         Disinfectant used to control microbes.         Disinfectant.         Disinfectant.         With chloramines and an annual         Likely Source of Contamination         Naturally present in the environment.         N/A         sesary to ensure that water   |  |  |  |  |  |
| Disinfectant Type Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide Chlorite NOTE: Water providers are requ average chlorine disinfection resi Source Water Drinking Water Removal Ratio NOTE: Total organic carbon (TO does not have unacceptable lever ' Removal ratio is the percent of Contaminants | Year<br>2021<br>2021<br>ired to maintain<br>dual level of bet<br>2021<br>2021<br>Collection Date<br>2021<br>C) has no healti<br>ls of pathogens<br>TOC removed b<br>Collection Date | Average Level of<br>Quarterly Data<br>2.9<br>0.105<br>a minimum chlorine<br>ween 0.5 (ppm) and<br>n effects. The disinf<br>By-products of disi<br>y the treatment proc | Maximum Res         Lowest Result<br>of Single Sample         1.6         0   | Highest<br>Result of<br>Single Sample<br>4.2<br>0<br>0.97<br>5 parts per mill<br>Organic (<br>Range of Level<br>3.69 - 4<br>2.01 - 4<br>1.9 - 4t<br>of orm disinfect<br>s (THMs) and h<br>OC required by<br>oridium a<br>Range of Level | MRDL<br>4.00<br>0.80<br>1.00<br>ion (ppm) f<br>Carbon<br>s Detected<br>.66<br>.01<br>.50<br>on by-prod<br>naloacetic c<br>TCEQ to b<br>nd Gia<br>s Detected  | a good indic<br>mr Leve<br>MRDLG<br><4.0<br>0.80<br>N/A<br>for systems of<br>pp<br>pp<br>% rem<br>ucts. Disinfection<br>pr<br>pr<br>% rem<br>ucts. Disinfection<br>called<br>(HAA)<br>per emoved.<br>rdia<br>Um<br>Um | Units Units Upm Upm Upm Upm Upm Upm Upm Upm Usinfecting v Usits Usits | Source of Chemical         Disinfectant used to control microbes.         Disinfectant.         Disinfectant.         with chloramines and an annual         Likely Source of Contamination         Naturally present in the environment.         N/A         essary to ensure that water         ported elsewhere in this report.         Likely Source of Contamination   |  |  |  |  |  |
| Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide Chlorite NOTE: Water providers are requ average chlorine disinfection resi Source Water Drinking Water Removal Ratio NOTE: Total organic carbon (TO does not have unacceptable levee Removal ratio is the percent of Contaminants Cryptosporidium     | Year<br>2021<br>2021<br>2021<br>2021<br>2021<br>2021<br>2021<br>202   | Average Level of<br>Quarterly Data<br>2.9<br>0.105<br>a minimum chlorine<br>ween 0.5 (ppm) and<br>n effects. The disinf<br>By-products of disi<br>y the treatment proc | Maximum Res         Lowest Result<br>of Single Sample         1.6       0         0       0         e disinfection residual level of 0       0         d 4 parts per million (ppm).       Total         Highest Level       0         Detected       4.66         4.01       46.0         cetant can combine with TOC to<br>infection include trihalomethane<br>zess divided by the percent of T         Cryptospo         Highest Level         Detected         0   | Highest<br>Result of<br>Single Sample<br>4.2<br>0<br>0.97<br>5 parts per mill<br>Organic (<br>Range of Level<br>3.69 - 4<br>2.01 - 4<br>1.9 - 44<br>0 form disinfecti<br>os (THMs) and f<br>OC required by<br>Dridium a                 | Ause it is<br>MRDL<br>4.00<br>0.80<br>1.00<br>ion (ppm) f<br>Carbon<br>s Detected<br>.66<br>.01<br>5.0<br>on by-prodot<br>nd Gia<br>s Detected<br>s Detected   | a good indic<br>Int Leve<br>MRDLG<br><4.0<br>0.80<br>N/A<br>or systems of<br>PP<br>PP<br>% rem<br>ucts. Disinfe<br>acids (HAA)<br>be removed.<br>rdia<br>Uur<br>(Oo) C  | Units Units ppm ppm ppm disinfecting v                                | Source of Chemical         Disinfectant         Disinfectant.         Disinfectant.         Likely Source of Contamination         Naturally present in the environment.         Naturally present in the environment.         NIA         NIA         Likely Source of Contamination         Nick         Likely Source of Contamination         Likely Source of Contamination         Likely Source of Contamination         Human and animal fecal waste. |  |  |  |  |  |
| Disinfectant Type Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide Chlorite VOTE: Water providers are requ verage chlorine disinfection resi Source Water Drinking Water Removal Ratio VOTE: Total organic carbon (TO loose not have unacceptable leve Removal ratio is the percent of Contaminants    | Year<br>2021<br>2021<br>ired to maintain<br>dual level of bet<br>2021<br>2021<br>Collection Date<br>2021<br>C) has no healti<br>ls of pathogens<br>TOC removed b<br>Collection Date | Average Level of<br>Quarterly Data<br>2.9<br>0.105<br>a minimum chlorine<br>ween 0.5 (ppm) and<br>n effects. The disinf<br>By-products of disi<br>y the treatment proc | Maximum Res         Lowest Result<br>of Single Sample         1.6         0   | Highest<br>Result of<br>Single Sample<br>4.2<br>0<br>0.97<br>5 parts per mill<br>Organic (<br>Range of Level<br>3.69 - 4<br>2.01 - 4<br>1.9 - 4t<br>of orm disinfect<br>s (THMs) and h<br>OC required by<br>oridium a<br>Range of Level | Ause it is<br>MRDL<br>4.00<br>0.80<br>1.00<br>ion (ppm) f<br>Carbon<br>s Detected<br>.66<br>.01<br>5.0<br>on by-prodot<br>nd Gia<br>s Detected<br>s Detected   | a good indic<br>Int Leve<br>MRDLG<br><4.0<br>0.80<br>N/A<br>or systems of<br>PP<br>PP<br>% rem<br>ucts. Disinfe<br>acids (HAA)<br>be removed.<br>rdia<br>Uur<br>(Oo) C  | Units Units Upm Upm Upm Upm Upm Upm Upm Upm Usinfecting v Usits Usits | Source of Chemical         Disinfectant used to control microbes.         Disinfectant.         Disinfectant.         with chloramines and an annual         Likely Source of Contamination         Naturally present in the environment.         N/A         essary to ensure that water         ported elsewhere in this report.         Likely Source of Contamination   |  |  |  |  |  |

## City of Kaufman Water Quality Data for Year 2021 (Cont.)

| Lood | and | Connel |
|------|-----|--------|
| Leau | and | CODDE  |

| Lead and Copper  |  |                      |  |                          |       |           |  |  |  |  |  |
|--|--|----------------------|--|--------------------------|-------|-----------|--|--|--|--|--|
| Lead and Copper  | Date<br>Sampled  | Action<br>Level (AL) | 90th Percentile  | # Sites Over AL          | Units | Violation | Likely Source of Contamination   |  |  |  |  |
| Lead   | 9/26/2019  | 15                   | 1.52   | 0                        | ppb   | Ν         | Corrosion of household plumbing systems; erosion of natural<br>deposits.                             |  |  |  |  |
| Copper   | Copper 9/26/2019 1.3 0.3079 0 ppm N Erosion of natural deposits; Ir corrosion of household plumb |                      |  |                          |       |           |  |  |  |  |  |
| DDITIONAL HEALTH INFORMATION FOR LEAD: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead<br>drinking water is primarily from materials and components associated with service lines and home plumbing. City of Kaufman is responsible for providing high quality drinking water,<br>it 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<br>shing your tap for 30 seconds to 2 minutes before using water for drinking or concerned about lead in your water, you may wish to have your water tested.<br>formation on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or<br>http://www.epa.gov/safewater/lead. |  |                      |  |                          |       |           |  |  |  |  |  |
|  |  |                      | Unregul  | ated Contamina           | nts   |           |  |  |  |  |  |
|  |  |                      | Highest Level  |                          |       |           |  |  |  |  |  |
| Contaminants   | Collection Date  |                      | Detected   | Range of Levels Detected | -     | its       | Likely Source of Contamination   |  |  |  |  |
| Chloroform   | 2021   |                      | 32.00  | 10.1-32.00               |       | ob        | By-product of drinking water disinfection.   |  |  |  |  |
| Bromoform  | 2021   |                      | 1.05   | 1.05-1.05                | p     |           | By-product of drinking water disinfection.   |  |  |  |  |
| Bromodichloromethane   | 2021   |                      | 11.8   | 6.09-11.8                |       |           | By-product of drinking water disinfection.   |  |  |  |  |
| Dibromochloromethane   | 2021   |                      | 6.01 3.2-6.01 ppb<br>dibromochloromethane are disinfection by-products. There is no maximum contaminan |                          |       |           | By-product of drinking water disinfection.   |  |  |  |  |
| Contaminants   | Collection Date  |                      | Secondary and Oth<br>Highest Level<br>Detected   | Range of Levels Detected |       | its       | Likely Source of Contamination   |  |  |  |  |
| Aluminum   | 2021   | Levels I             | ower than detect level   | 0-0                      | pr    | om        | Erosion of natural deposits.   |  |  |  |  |
| Calcium  | 2021   |                      | 77.5   | 34.5 - 77.5              | pp    | om        | Abundant naturally occurring element.  |  |  |  |  |
| Chloride   | 2021   |                      | 78.9   | 4.78 - 78.9              | pp    | om        | Abundant naturally occurring element; used in water purificatio<br>by-product of oil field activity. |  |  |  |  |
| Iron   | 2021   | Levels I             | ower than detect level   | 0 - 0                    | pp    | om        | Erosion of natural deposits; iron or steel water delivery<br>equipment or facilities.                |  |  |  |  |
| Magnesium  | 2021   |                      | 4.43   | 3.40 - 4.43              |       | m         | Abundant naturally occurring element.  |  |  |  |  |
| Manganese  | 2021   |                      | 0.038  | 0 - 0.038                | pp    | om        | Abundant naturally occurring element.  |  |  |  |  |
| Nickel   | 2021   |                      | 0.0060   | 0.004 - 0.006            |       | om        | Erosion of natural deposits.   |  |  |  |  |
| рН   | 2021   |                      | 9.12   | 7.56 - 9.12              | ur    | nits      | Measure of corrosivity of water.   |  |  |  |  |
| Silver   | 2021   | Levels I             | ower than detect level   | 0 - 0                    | pp    | om        | Erosion of natural deposits.   |  |  |  |  |
| Sodium   | 2021   |                      | 81.1   | 33.0 - 81.1              | pp    | om        | Erosion of natural deposits; by-product of oil field activity.                                       |  |  |  |  |
| Sulfate  | 2021   |                      | 153  | 22.4 - 153               | pr    | om        | Naturally occurring; common industrial by-product; by-product oil field activity.                    |  |  |  |  |
| Total Alkalinity as CaCO3  | 2021   |                      | 128  | 65 - 128                 | pr    | om        | Naturally occurring soluble mineral salts.   |  |  |  |  |
| Total Dissolved Solids   | 2021   |                      | 444  | 186 - 444                | pr    | om        | Total dissolved mineral constituents in water.   |  |  |  |  |
| Total Hardness as CaCO3  | 2021   |                      | 192  | 96 - 192                 | pr    | om        | Naturally occurring calcium.   |  |  |  |  |
| Zinc   | 2021   | Levels I             | ower than detect level   | 0 - 0                    | pp    | om        | Moderately abundant naturally occurring element used in the metal industry.                          |  |  |  |  |
|  |  |                      | Vic  | plations Table           |       |           |  |  |  |  |  |

| Violation Type  | Violation Begin | Violation End | Violation Explanation  |
|---|-----------------|---------------|--|
| Violation Type<br>CHEMICAL MONITORING,<br>ROUTINE MAJOR | Violation Begin | Dec-21        | Violation Explanation           What Happened:         On December 5 and 26 of 2021, as a result of staff oversight in routine daily monitoring for chlorine dioxide/chlorite was not collected two out of the thirty-one days required in the month. Although this situation did not pose a safety risk and does not require you take any action, NTMWD is required to notify customers of the monitoring violation.           All samples that were collected within the transmission system and those collected in-plant during December 2021 remained below regulatory requirements and have remained below these limits ever since this monitoring requirement was implemented over a decade ago.           What should I do?           There is nothing you need to do at this time and no alternate water supply is needed.           What is being done?           District personnel have revised our sample validation procedures and sampling protocols to twice per day to ensure these samples are collected, above what is required by regulation.           Mandatory Language for Monitoring/Reporting Violation - Chemical Sampling - CHEMICAL MONITORING, ROUTINE MAJOR           The NORTH TEXAS MWD WYLIE WTP water system PWS ID TX0430044 has violated the monitoring/reporting requirements set by Texas           Commission on Environmental Quality (TCEQ) in Chapter 30, Section 290, Subchapter F. Public water systems are required basis.           We failed to monitoring portidue to the incustomers, and report the results of the monitoring to the TCEQ on a regular basis.           We failed to monitoring outile constituents; Chlorine Dioxide /Chlorite           This/These violation(s) occurred in the monitoring period( |
|   |                 |               | 5405.<br>North Texas Municipal Water District<br>E. Brown Street<br>Wylie, TX  |

## NTMWD Tawakoni Water Treatment Plants Water Quality Data for Year 2021

| Coliform Bacteria  |  |                                   |                                   |   |                                       |  |                |  |  |  |
|--|--|-----------------------------------|-----------------------------------|---|---------------------------------------|--|----------------|--|--|--|
| Maximum Contaminant<br>Level Goal<br>0   | Total Coliform Maximum<br>Contaminant Level<br>1 positive monthly sample |                                   | Highest No. of Positive<br>Cust#  | Fecal Coliform<br>or<br>E. Coli<br>Maximum<br>Contaminant<br>Level<br>0 | Total No.<br>E. Coli<br>Coliforn<br>C | Total No. of Positive<br>E. Coli or Fecal<br>Coliform Samples<br>Cust# |                | Likely Source of Contamination<br>Naturally present in the environment.  |  |  |
| NOTE: Reported monthly tests for<br>potentially harmful, bacteria may l                    |  | liform bacteria. Col              | iforms are bacteria that are natu | rally present in  | the enviro                            | nment and a  | re used as ar  | n indicator that other,  |  |  |
| Regulated Contaminants   |  |                                   |                                   |   |                                       |  |                |  |  |  |
| Disinfectants and<br>Disinfection By-Products  | Collection Date  | Highest Level<br>Detected         | Range of Levels Detected          | MCLG  | MCL                                   | Units  | Violation      | Likely Source of Contamination   |  |  |
| Total Haloacetic Acids (HAA5)  | 2021   | Cust#                             | Cust#                             | No goal for<br>the total  | 60                                    | ppb  | Cust#          | By-product of drinking water disinfection.   |  |  |
| Total Trihalomethanes (TTHM)   | 2021   | Cust#                             | Cust#                             | No goal for<br>the total  | 80                                    | ppb  | Cust#          | By-product of drinking water disinfection.   |  |  |
| Bromate  | 2021   | 4.38                              | 4.38 - 4.38                       | 5   | 10                                    | ppb  | No             | By-product of drinking water ozonation.  |  |  |
| NOTE: Not all sample results ma<br>sampling should occur in the futur                      |  |                                   |                                   |   | ts may be p                           | part of an eva   | aluation to de | termine where compliance   |  |  |
| Inorganic Contaminants   | Collection Date  | Highest Level<br>Detected         | Range of Levels Detected          | MCLG  | MCL                                   | Units  | Violation      | Likely Source of Contamination   |  |  |
| Antimony   | 2021   | Levels lower than<br>detect level | 0 - 0                             | 6   | 6                                     | ppb  | No             | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; and test addition.                                    |  |  |
| Arsenic  | 2021   | Levels lower than<br>detect level | 0 - 0                             | 0   | 10                                    | ppb  | No             | Erosion of natural deposits; runoff from orchards; runoff from<br>glass and electronics production wastes.                                 |  |  |
| Barium   | 2021   | 0.064                             | 0.064 - 0.064                     | 2   | 2                                     | ppm  | No             | Discharge of drilling wastes; discharge from metal refineries;<br>erosion of natural deposits.   |  |  |
| Beryllium  | 2021   | Levels lower than<br>detect level | 0 - 0                             | 4   | 4                                     | ppb  | No             | Discharge from metal refineries and coal-burning factories;<br>discharge from electrical, aerospace, and defense industries.               |  |  |
| Cadmium  | 2021   | Levels lower than<br>detect level | 0 - 0                             | 5   | 5                                     | ppb  | No             | Corrosion of galvanized pipes; erosion of natural deposits;<br>discharge from metal refineries; runoff from waste batteries and<br>paints. |  |  |
| Chromium   | 2021   | Levels lower than<br>detect level | 0 - 0                             | 100   | 100                                   | ppb  | No             | Discharge from steel and pulp mills; erosion of natural deposits.  |  |  |
| Cyanide  | 2021   | Levels lower than<br>detect level | 0 - 0                             | 200   | 200                                   | ppb  | No             | Discharge from steel/metal factories; Discharge from plastics<br>and fertilizer factories.   |  |  |
| Fluoride   | 2021   | 0.527                             | 0.527 - 0.527                     | 4   | 4                                     | ppm  | No             | Erosion of natural deposits; water additive which promotes<br>strong teeth; discharge from fertilizer and aluminum factories.              |  |  |
| Mercury  | 2021   | Levels lower than<br>detect level | 0 - 0                             | 2   | 2                                     | ppb  | No             | Erosion of natural deposits; discharge from refineries and<br>factories; runoff from landfills; runoff from cropland.                      |  |  |
| Nitrate (measured as Nitrogen)   | 2021   | 0.166                             | 0.166 - 0.166                     | 10  | 10                                    | ppm  | No             | Runoff from fertilizer use; leaching from septic tanks; sewage;<br>erosion of natural deposits.  |  |  |
| Selenium   | 2021   | Levels lower than<br>detect level | 0 - 0                             | 50  | 50                                    | ppb  | No             | Discharge from petroleum and metal refineries; erosion of<br>natural deposits; discharge from mines.                                       |  |  |
| Thallium   | 2021   | Levels lower than<br>detect level | 0 - 0                             | 0.5   | 2                                     | ppb  | No             | Discharge from electronics, glass, and leaching from ore-<br>processing sites; drug factories.   |  |  |
| Nitrate Advisory: Nitrate in drinkir<br>baby syndrome. Nitrate levels ma<br>care provider. |  |                                   |                                   |   |                                       |  |                |  |  |  |
| Radioactive Contaminants   | Collection Date  | Highest Level<br>Detected         | Range of Levels Detected          | MCLG  | MCL                                   | Units  | Violation      | Likely Source of Contamination   |  |  |
| Beta/photon emitters   | 2021   | 4.8                               | 4.8 - 4.8                         | 0   | 50                                    | pCi/L  | No             | Decay of natural and man-made deposits.  |  |  |
| Gross alpha excluding<br>radon and uranium   | 2021   | Levels lower than<br>detect level | 0 - 0                             | 0   | 15                                    | pCi/L  | No             | Erosion of natural deposits.   |  |  |
| Radium   | 2021   | Levels lower than<br>detect level | 0 - 0                             | 0   | 5                                     | pCi/L  | No             | Erosion of natural deposits.   |  |  |

| Synthetic organic contaminants         | Synthetic organic contaminants |   |                          |      |     |       |           |   |  |  |  |  |
|--|--------------------------------|---|--------------------------|------|-----|-------|-----------|---|--|--|--|--|
| including pesticides and<br>herbicides | Collection Date                | Highest Level<br>Detected                         | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination  |  |  |  |  |
| 2, 4, 5 - TP (Silvex)                  | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 50   | 50  | ppb   | No        | Residue of banned herbicide.  |  |  |  |  |
| 2, 4 - D                               | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 70   | 70  | ppb   | No        | Runoff from herbicide used on row crops.  |  |  |  |  |
| Alachlor                               | 2021                           | Levels lower than detect level                    | 0 - 0                    | 0    | 2   | ppb   | No        | Runoff from herbicide used on row crops.  |  |  |  |  |
| Aldicarb                               | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 1    | 3   | ppb   | No        | Runoff from agricultural pesticide.   |  |  |  |  |
| Aldicarb Sulfone                       | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 1    | 2   | ppb   | No        | Runoff from agricultural pesticide.   |  |  |  |  |
| Aldicarb Sulfoxide                     | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 1    | 4   | ppb   | No        | Runoff from agricultural pesticide.   |  |  |  |  |
| Atrazine                               | 2021                           | 0.1   | 0.1 - 0.1                | 3    | 3   | ppb   | No        | Runoff from herbicide used on row crops.  |  |  |  |  |
| Benzo (a) pyrene                       | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 200 | ppt   | No        | Leaching from linings of water storage tanks and distribution lines.                        |  |  |  |  |
| Carbofuran                             | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 40   | 40  | ppb   | No        | Leaching of soil fumigant used on rice and alfalfa.   |  |  |  |  |
| Chlordane                              | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 2   | ppb   | No        | Residue of banned termiticide.  |  |  |  |  |
| Dalapon                                | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 200  | 200 | ppb   | No        | Runoff from herbicide used on rights of way.  |  |  |  |  |
| Di (2-ethylhexyl) adipate              | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 400  | 400 | ppb   | No        | Discharge from chemical factories.  |  |  |  |  |
| Di (2-ethylhexyl) phthalate            | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 6   | ppb   | No        | Discharge from rubber and chemical factories.   |  |  |  |  |
| Dibromochloropropane (DBCP)            | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 200 | ppt   | No        | Runoff / leaching from soil fumigant used on soybeans, cotton,<br>pineapples, and orchards. |  |  |  |  |
| Dinoseb                                | 2021                           | Levels lower than detect level                    | 0 - 0                    | 7    | 7   | ppb   | No        | Runoff from herbicide used on soybeans and vegetables.                                      |  |  |  |  |
| Endrin                                 | 2021                           | Levels lower than detect level                    | 0 - 0                    | 2    | 2   | ppb   | No        | Residue of banned insecticide.  |  |  |  |  |
| Ethylene dibromide                     | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 50  | ppt   | No        | Discharge from petroleium refineries.   |  |  |  |  |
| Heptachlor                             | 2021                           | Levels lower than detect level                    | 0 - 0                    | 0    | 400 | ppt   | No        | Residue of banned termiticide.  |  |  |  |  |
| Heptachlor epoxide                     | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 200 | ppt   | No        | Breakdown of heptachlor.  |  |  |  |  |
| Hexachlorobenzene                      | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 1   | ppb   | No        | Discharge from metal refineries and agricultural chemical<br>factories.                     |  |  |  |  |
| Hexachlorocyclopentadiene              | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 50   | 50  | ppb   | No        | Discharge from chemical factories.  |  |  |  |  |
| Lindane                                | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 200  | 200 | ppt   | No        | Runoff / leaching from insecticide used on cattle, lumber, and<br>gardens.                  |  |  |  |  |
| Methoxychlor                           | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 40   | 40  | ppb   | No        | Runoff / leaching from insecticide used on fruits, vegetables,<br>alfalfa, and livestock.   |  |  |  |  |
| Oxamyl [Vydate]                        | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 200  | 200 | ppb   | No        | Runoff / leaching from insecticide used on apples, potatoes, and<br>tomatoes.               |  |  |  |  |
| Pentachlorophenol                      | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 1   | ppb   | No        | Discharge from wood preserving factories.   |  |  |  |  |
| Picloram                               | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 500  | 500 | ppb   | No        | Herbicide runoff.   |  |  |  |  |
| Simazine                               | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 4    | 4   | ppb   | No        | Herbicide runoff.   |  |  |  |  |
| Toxaphene                              | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 3   | ppb   | No        | Runoff / leaching from insecticide used on cotton and cattle.                               |  |  |  |  |
| Volatile Organic Contaminants          | Collection Date                | Highest Level<br>Detected                         | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination  |  |  |  |  |
| 1, 1, 1 - Trichloroethane              | 2021                           | Levels lower than                                 | 0 - 0                    | 200  | 200 | ppb   | No        | Discharge from metal degreasing sites and other factories.                                  |  |  |  |  |
| 1, 1, 2 - Trichloroethane              | 2021                           | detect level<br>Levels lower than                 | 0 - 0                    | 3    | 5   | ppb   | No        | Discharge from industrial chemical factories.   |  |  |  |  |
| 1, 1 - Dichloroethylene                | 2021                           | detect level<br>Levels lower than                 | 0 - 0                    | 7    | 7   | ppb   | No        | Discharge from industrial chemical factories.   |  |  |  |  |
| 1, 2, 4 - Trichlorobenzene             | 2021                           | detect level<br>Levels lower than<br>detect level | 0 - 0                    | 70   | 70  | ppb   | No        | Discharge from textile-finishing factories.   |  |  |  |  |
| 1, 2 - Dichloroethane                  | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from industrial chemical factories.   |  |  |  |  |
| 1, 2 - Dichloropropane                 | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from industrial chemical factories.   |  |  |  |  |
| Benzene                                | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from factories; leaching from gas storage tanks and landfills.                    |  |  |  |  |
| Carbon Tetrachloride                   | 2021                           | Levels lower than<br>detect level                 | 0 - 0                    | 0    | 5   | ppb   | No        | Discharge from chemical plants and other industrial activities.                             |  |  |  |  |
|  |                                |   |                          |      |     | 1     | 1         | l   |  |  |  |  |

## NTMWD Tawakoni Water Treatment Plants Water Quality Data for Year 2021

| Water Quality Data for Year 2021   |   |                                   |  |                   |                     |              |                |  |  |  |
|--|---|-----------------------------------|--|-------------------|---------------------|--------------|----------------|--|--|--|
| Volatile Organic Contaminants  | Collection Date   | Highest Level<br>Detected         | Range of Levels Detected               | MCLG              | MCL                 | Units        | Violation      | Likely Source of Contamination   |  |  |
| Chlorobenzene  | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 100               | 100                 | 0 ppb No     |                | Discharge from chemical and agricultural chemical factories.             |  |  |
| Dichloromethane  | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 0                 | 5                   | ppb No       |                | Discharge from pharmaceutical and chemical factories.                    |  |  |
| Ethylbenzene   | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 0                 | 700                 | ppb          | No             | Discharge from petroleum refineries.                                     |  |  |
| Styrene  | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 100               | 100                 | ppb          | No             | Discharge from rubber and plastic factories; leaching from<br>landfills. |  |  |
| Tetrachloroethylene  | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 0                 | 5                   | ppb          | No             | Discharge from factories and dry cleaners.                               |  |  |
| Toluene  | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 1                 | 1                   | ppm          | No             | Discharge from petroleum factories.                                      |  |  |
| Trichloroethylene  | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 0                 | 5                   | ppb          | No             | Discharge from metal degreasing sites and other factories.               |  |  |
| Vinyl Chloride   | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 0                 | 2                   | ppb          | No             | Leaching from PVC piping; discharge from plastics factories.             |  |  |
| Xylenes  | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 10                | 10                  | ppm          | No             | Discharge from petroleum factories; discharge from chemical factories.   |  |  |
| cis - 1, 2 - Dichloroethylene  | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 70                | 70                  | ppb          | No             | Discharge from industrial chemical factories.                            |  |  |
| o - Dichlorobenzene  | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 600               | 600                 | ppb          | No             | Discharge from industrial chemical factories.                            |  |  |
| p - Dichlorobenzene  | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 75                | 75                  | ppb          | No             | Discharge from industrial chemical factories.                            |  |  |
| trans - 1, 2 - Dicholoroethylene   | 2021  | Levels lower than<br>detect level | 0 - 0                                  | 100               | 100                 | ppb          | No             | Discharge from industrial chemical factories.                            |  |  |
| Turbidity  |   |                                   |  |                   |                     |              |                |  |  |  |
| Limit  |   |                                   |  |                   |                     |              |                |  |  |  |
| (Treatment Technique) Level Detected Violation Likely Source of Contamination  |   |                                   |  |                   |                     |              |                |  |  |  |
|  | st single measurement         1 NTU         0.35 NTU         No         Soil runoff.           st monthly percentage (%) meeting limit         0.3 NTU         99.40%         No         Soil runoff. |                                   |  |                   |                     |              |                |  |  |  |
| NOTE: Turbidity is a measureme   |   | ness of the water ca              |  | Ve monitor it be  |                     |              |                |  |  |  |
| of our filtration.   |   |                                   |  |                   |                     |              |                |  |  |  |
|  | •   |                                   | Maximum Res                            | sidual Dis        | sinfecta            | int Leve     | el             |  |  |  |
|  |   |                                   |  |                   |                     |              |                |  |  |  |
| Disinfectant Type  | Year  | Average Level                     | Minimum Level                          | Maximum<br>Level  | MRDL                | MRDLG        | Units          | Source of Chemical   |  |  |
| Chlorine Residual (Chloramines)  | 2021  | Cust#                             | Cust#                                  | Cust#             | 4.00                | <4.0         | ppm            | Disinfectant used to control microbes.                                   |  |  |
| Chlorine Dioxide   | 2021  | 0.03                              | 0                                      | 0.58              | 0.80                | 0.80         | ppm            | Disinfectant.  |  |  |
| Chlorite   | 2021  | 0.10                              | 0                                      | 0.76              | 1.00                | N/A          | ppm            | Disinfectant.  |  |  |
| NOTE: Water providers are requartered to the second |   |                                   |  | .5 parts per mill | ion (ppm) f         | or systems o | disinfecting w | ith chloramines and an annual  |  |  |
|  |   |                                   |  | Organic           | Carbon              |              |                |  |  |  |
|  |   | r                                 | Highest Level                          |                   | Garbor              |              |                |  |  |  |
|  | Collection Date   |                                   | Detected                               | Range of Leve     |                     |              | nits           | Likely Source of Contamination   |  |  |
| Source Water   | 2021  |                                   | 5.50                                   | 4.46 - 5          |                     | ppm          |                | Naturally present in the environment.                                    |  |  |
| Drinking Water   | 2021  |                                   | 3.36                                   |                   | 2.17 - 3.36 ppm     |              |                | Naturally present in the environment.                                    |  |  |
| Removal Ratio  | 2021  |                                   | 57.7                                   | 33.2 - 5          |                     | % ren        |                | N/A  |  |  |
| NOTE: Total organic carbon (TO<br>does not have unacceptable leve<br>* Removal ratio is the percent of   | Is of pathogens   | By-products of disi               | nfection include trihalomethane        | s (THMs) and h    | naloacetic a        | acids (HAA)  |                |  |  |  |
|  |   |                                   | Cryptosp                               | oridium a         | nd Gia              | rdia         |                |  |  |  |
| Contaminants   | Collection Date   |                                   | Highest Level<br>Detected              | Range of Leve     | Is Detected         | Ur           | nits           | Likely Source of Contamination   |  |  |
| Cryptosporidium  | 2021  |                                   | 0                                      | 0 - (             |                     |              |                | Human and animal fecal waste.  |  |  |
| Giardia  | 2021  |                                   | 0.09<br>ardia Levels shown are not for |                   | - 0.09 (Oo) Cysts/L |              | Cysts/L        | Human and animal fecal waste.  |  |  |

## **NTMWD Tawakoni Water Treatment Plants** Water Quality Data for Year 2021

Giardia 2021 0.09 0.09 - NOTE: Only source water was evaluated for cryptosporidium and giardia. Levels shown are not for drinking water.

## NTMWD Tawakoni Water Treatment Plants Water Quality Data for Year 2021

|  | Lead and Copper  |  |                                   |                              |       |           |   |  |  |  |  |
|--|--|--|-----------------------------------|------------------------------|-------|-----------|---|--|--|--|--|
| Lead and Copper  | Date<br>Sampled  | Action<br>Level (AL)   | 90th Percentile                   | # Sites Over AL              | Units | Violation | Likely Source of Contamination  |  |  |  |  |
| Lead   |  | 15   | CUST #                            | CUST #                       | ppb   |           | Erosion of natural deposits; leaching from wood preservatives;<br>corrosion of household plumbing systems.                                      |  |  |  |  |
| Copper   |  | 1.3 CUST # CUST # ppm Cust # cust # cust # ppm Corrosion of household plumbing systems; erosion of deposits. |                                   |                              |       |           |   |  |  |  |  |
| in drinking water is primarily from<br>but cannot control the variety of<br>flushing your tap for 30 seconds | DDITIONAL HEALTH INFORMATION FOR LEAD: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead<br>of inking water is primarily from materials and components associated with service lines and home plumbing. [Customer] is responsible for providing high quality drinking water,<br>ut 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<br>using your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water hay water your water tested.<br>If ormation 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/salewater  | leau.  |  | Linner                            | ulated Contamina             | -     |           |   |  |  |  |  |
|  |  |  |                                   | Ilated Contamina             | nts   |           |   |  |  |  |  |
| Contaminants   | Collection Date  |  | Highest Level<br>Detected         | Range of Levels Detected     | Ui    | nits      | Likely Source of Contamination  |  |  |  |  |
| Chloroform   | 2021   |  | CUST #                            | CUST #                       | р     | pb        | By-product of drinking water disinfection.  |  |  |  |  |
| Bromoform  | 2021   |  | CUST #                            | CUST #                       | р     | pb        | By-product of drinking water disinfection.  |  |  |  |  |
| Bromodichloromethane   | 2021   |  | CUST #                            | CUST #                       |       | pb        | By-product of drinking water disinfection.  |  |  |  |  |
| Dibromochloromethane   | 2021   |  | CUST #                            | CUST #                       | p     | pb        | By-product of drinking water disinfection.  |  |  |  |  |
| Contaminants   | Collection Date  |  | Secondary and Ot<br>Highest Level |                              |       |           | Likely Source of Contamination  |  |  |  |  |
|  |  |  | Detected<br>0.082                 | Range of Levels Detected     | -     | nits      | -   |  |  |  |  |
| Aluminum   | 2021<br>2021   |  | 61.5                              | 0.082 - 0.082<br>40.4 - 61.5 |       | pm        | Erosion of natural deposits.  |  |  |  |  |
| Calcium<br>Chloride  | 2021   |  | 17.1                              | 12.2 - 17.1                  |       | pm<br>pm  | Abundant naturally occurring element.<br>Abundant naturally occurring element; used in water purification;<br>by-product of oil field activity. |  |  |  |  |
| Iron   | 2021   | Levels   | ower than detect level            | 0 - 0                        | р     | pm        | Erosion of natural deposits; iron or steel water delivery<br>equipment or facilities.   |  |  |  |  |
| Magnesium  | 2021   |  | 2.74                              | 2.74 - 2.74                  | р     | pm        | Abundant naturally occurring element.   |  |  |  |  |
| Manganese  | 2021   |  | 0.033                             | 0.0019 - 0.0033              |       | pm        | Abundant naturally occurring element.   |  |  |  |  |
| Nickel   | 2021   |  | 0.0037                            | 0.0037 - 0.0037              | р     | pm        | Erosion of natural deposits.  |  |  |  |  |
| pH   | 2021   |  | 8.40                              | 7.7 - 8.4                    | u     | nits      | Measure of corrosivity of water.  |  |  |  |  |
| Silver   | 2021   | Levels l   | ower than detect level            | 0 - 0                        | р     | pm        | Erosion of natural deposits.  |  |  |  |  |
| Sodium   | 2021   |  | 24.2                              | 13.6 - 24.2                  | p     | pm        | Erosion of natural deposits; by-product of oil field activity.  |  |  |  |  |
| Sulfate  | 2021   |  | 78.70                             | 51.5 - 78.7                  | P     | pm        | Naturally occurring; common industrial by-product; by-product of<br>oil field activity.   |  |  |  |  |
| Total Alkalinity as CaCO3  | 2021   |  | 72                                | 54 - 72                      | р     | pm        | Naturally occurring soluble mineral salts.  |  |  |  |  |
| Total Dissolved Solids   | 2021   |  | 231                               | 172 - 231                    | p     | pm        | Total dissolved mineral constituents in water.  |  |  |  |  |
| Total Hardness as CaCO3  | 2021   |  | 128.00                            | 98 - 128                     | р     | pm        | Naturally occurring calcium.  |  |  |  |  |
| Zinc   | 2021   | Levels l   | ower than detect level            | 0 - 0                        | p     | pm        | Moderately abundant naturally occurring element used in the<br>metal industry.  |  |  |  |  |

### 2021 ANNUAL DRINKING WATER QUALITY REPORT

### TX1290021 NORTH KAUFMAN WATER SUPPLY CORPORATION

Annual Water Quality Report for the period of January 1 to December 31, 2021. 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.

For more information regarding this report contact: Greg Perkins – General Manager Phone: (972)-962-7614

Este reporte incluye informacion importante sobre el aqua para tomar. Para asistencia en espanol, favor de llamar al telefono (972)-962-7614.

North Kaufman WSC Board Meetings are held the third Monday of each month at 7 pm at 3891 N. Hwy. 34, Kaufman, TX.

North Kaufman WSC is a Purchased Surface Water

### **Sources of Drinking Water**

The sources of drinking water (both tap 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 <a href="http://www.epa.gov/safewater/lead">http://www.epa.gov/safewater/lead</a>.

### Information about Source Water Assessments

A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment allows us to focus source water protection strategies.

For more information about your sources of water, please refer to the Source Water Watch at the following URL: <a href="http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc="http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc="http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc="http://gis3.tceq.state.tx.us/swav/Controller/index.jsp">http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=</a>

Further details about your sources and source-water assessments are available in Drinking Water Watch at the following URL: <a href="http://dww.tceq.texas.gov/DWW">http://dww.tceq.texas.gov/DWW</a>

| Source Water Name       |                           | <b>Type of Water</b> | <b>Report Status</b> | Location                  |
|-------------------------|---------------------------|----------------------|----------------------|---------------------------|
| SW from City of Kaufman | CC from TX1290003 City of | SW                   | Active               | Lake Lavon                |
| SW from City of Terrell | CC from TX1290006 City of | SW                   | Active               | Lake Lavon, Lake Tawakoni |

### 2021 Regulated Contaminants Detected

Lead and Copper

**Definitions:** 

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.

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90 <sup>th</sup> Percentile | # Sites Over AL | Units | Violation | Like Contamination Source             |
|-----------------|--------------|------|-------------------|-----------------------------|-----------------|-------|-----------|---------------------------------------|
|                 |              |      |                   |                             |                 |       |           |                                       |
| Copper          | 2021         | 1.3  | 1.3               | 0.51                        | 1               | ppm   | Ν         | Erosion of natural deposits; leaching |
|                 |              |      |                   |                             |                 |       |           | from wood preservatives; Corrosion    |
|                 |              |      |                   |                             |                 |       |           | of household plumbing systems.        |
| Lead            | 2021         | 0    | 15                | 1.7                         | 01              | ppb   | Ν         | Corrosion of household plumbing       |
|                 |              |      |                   |                             |                 | ·     |           | systems; Erosion of natural deposits. |

### Water Quality Test Results

| Definitions:                       | The following tables contain scientific terms and measures, some of which may require explanat  |  |
|------------------------------------|---|--|
| Avg:                               | Regulatory compliance with some MCLs are based on running annual average of monthly samples.  |  |
| Max Containment 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.   |  |
| Level 1 Assessment:                | 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.   |  |
| Max Contaminant Level Goal (MCGL): | The level of a contaminant in drinking water below which there is no known or expected risk to health. MCGLs allow for a margin of safety.  |  |
| 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. |  |

## Water Quality Test Results (continued)

| Max 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.                       |
|---|---|
| Max residual disinfectant level goal (MRDLG): | The level of a drinking water disinfectant below which there is no know 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).   |
| Na:   | Not applicable.   |
| mrem:   | Millirems per year (a measure of radiation absorbed by the body).   |
| NTU:  | Nephelometric turbidity units (a measure of turbidity).   |
| pCi/L:  | Picocuries 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.   |
| Treatment Technique or TT:                    | A required process intended to reduce the level of a contaminant in drinking water.   |
| ppt:  | Parts per trillion, or nanograms per liter (ng/L).  |
| ppq:  | Parts per quadrillion, or pictograms per liter (pg/L).  |

## **Regulated Contaminants**

| Disinfectants and                  | Collection | Highest  | Range of Levels | MCLG                     | MCL | Units | Violation | Likely Contamination Source                |
|------------------------------------|------------|----------|-----------------|--------------------------|-----|-------|-----------|--|
| Disinfection By-                   | Date       | Level    | Detected        |                          |     |       |           |  |
| Products                           |            | Detected |                 |                          |     |       |           |  |
| Haloacetic Acids<br>(HAA5)         | 2021       | 16.2     | 12.6-22.8       | No goal for<br>the total | 60  | ppb   | N         | By-product of drinking water disinfection. |
| Total<br>Trihalomethanes<br>(TTHM) | 2021       | 29.4     | 16.6-37.5       | No goal for<br>the total | 80  | ррb   | N         | By-product of drinking water disinfection. |

| Inorganic         | Collection | Highest Level | Range of Levels | MCLG | MCL | Units | Violation | Like Source of Contamination               |
|-------------------|------------|---------------|-----------------|------|-----|-------|-----------|--|
| Contaminants      | Date       | Detected      | Detected        |      |     |       |           |  |
| Nitrate (measured | 2021       | 0.29          | 0.29029         | 10   | 10  | ppm   | N         | Runoff from fertilizer use; Le3aching from |
| as Nitrogen)      |            |               |                 |      |     |       |           | septic tanks, sewage; Erosion of natural   |
| _                 |            |               |                 |      |     |       |           | deposits.                                  |

## **Violations Table**

| 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 corrosiveness. |
| Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.                                       |

| Violation Type               | Violation Begin | Violation End | Violation Explanation                |
|------------------------------|-----------------|---------------|--------------------------------------|
| Follow-up or Routine Tap M/R | 10/1/2015       | 9/28/2016     | We failed to test our drinking water |
| (LCR)                        |                 |               | for the contaminant and period       |
|                              |                 |               | indicated. Because of this failure,  |
|                              |                 |               | we cannot be sure of our drinking    |
|                              |                 |               | water for the period indicated.      |

Nitrate Rule

The Nitrate Rule requires public water systems to submit chemical samples of water provided to their customers, and report findings to TCEQ on a regular basis.

| Violation Type  | Violation Begin | Violation End | Violation Explanation                |
|-----------------|-----------------|---------------|--------------------------------------|
| Routine / Major | 1/1/2017        | 12/31/2018    | NKWSC was not actively               |
|                 |                 |               | monitoring this location because the |
|                 |                 |               | location in question was not being   |
|                 |                 |               | used to supply members with water.   |
|                 |                 |               | This location has been reported out  |
|                 |                 |               | of service since 8/2016. No water    |
|                 |                 |               | from this location was distributed   |
|                 |                 |               | to any member(s) for consumption.    |