

# 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 Level Goal	Total Coliform Maximum Contaminant Level 1 positive monthly sample		Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level 0	E. Coli	of Positive or Fecal n Samples 0	Violation	Likely Source of Contamination 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 Disinfection By-Products	Collection Date	Highest Level 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 the total	60	ppb	No	By-product of drinking water disinfection.			
Total Trihalomethanes (TTHM)	2021	46.1	19.3-46.1	No goal for 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 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 Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination			
Antimony	2021	Levels lower than 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 detect level	0 - 0	0	10	ppb	No	Erosion of natural deposits; runoff from orchards; runoff from 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; erosion of natural deposits.			
Beryllium	2021	Levels lower than detect level	0 - 0	4	4	ppb	No	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries.			
Cadmium	2021	Levels lower than detect level	0 - 0	5	5	ppb	No	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints.			
Chromium	2021	Levels lower than 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 and fertilizer factories.			
Fluoride	2021	0.480	0.306 - 0.480	4	4	ppm	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.			
Mercury	2021	Levels lower than detect level	0 - 0	2	2	ppb	No	Erosion of natural deposits; discharge from refineries and 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; erosion of natural deposits.			
Selenium	2021	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.			
Thallium	2021	Levels lower than detect level	0 - 0	0.5	2	ppb	No	Discharge from electronics, glass, and leaching from ore- processing sites; drug factories.			
Nitrate Advisory: Nitrate in drinkin baby syndrome. Nitrate levels ma care provider.											
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination			
Beta/photon emitters	2021	Levels lower than detect level	0 - 0	0	50	pCi/L	No	Decay of natural and man-made deposits.			
Gross alpha excluding radon and uranium	2021	Levels lower than detect level	0 - 0	0	15	pCi/L	No	Erosion of natural deposits.			
Radium	2021	Levels lower than detect level	0 - 0	0	5	pCi/L	No	Erosion of natural deposits.			

Interline paracitas and Medical Contents         Contents         Page of Lexit Detected 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.			
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Dalapon2019detect [vov]0 - 0200200ppNoRundt from herbicale used on rights of way.Di (2-ettryhtexyl) adpate2021levels lower han detect [vov]0 - 0400400pbNoDischarge from chemical factories.Di (2-ettryhtexyl) phthalat2021levels lower han detect [vov]0 - 006pbNoDischarge from nubber and chemical factories.Ditromochioropropane (DBCP)2019levels lower han detect [vov]0 - 00200pptNoRundt from herbicale used on soybeans, and regetables.Dinoseb2019levels lower han detect [vov]0 - 077pbNoRundt from herbicale used on soybeans and vegetables.Endrin2021levels lower han detect [vov]0 - 0050pptNoResidue of banned insecticide.Heptachior2021levels lower han detect [vov]0 - 00400pptNoResidue of banned insecticide.Heptachior epoxide2021levels lower han detect [vov]0 - 0010pptNoBreadown of heptachior.Hexachiorocyclopentadien2021levels lower han detect [vov]0 - 0010pptNoBreadown of heptachior.Hexachiorocyclopentadien2021levels lower han detect [vov]0 - 0200pptNoBreadown of heptachior.Hexachiorocyclopentadien2021levels lower han 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 detect tevel0-006ppbNoDischarge from nubber and chemical factories.Diromochioropropane (DBCP)2019Levels lower than detect tevel0-00200pptNoRunoff from hethicida scotories.Dinoseb2019Levels lower than detect tevel0-077ppbNoRunoff from hethicida scotories.Endrin2021Levels lower than detect tevel0-00200pptNoResidue of banned insecticide.Ethytene dibromide2019Levels lower than detect tevel0-00500pptNoResidue of banned insecticide.Heptachlor2021Levels lower than detect tevel0-00200pptNoResidue of banned insecticide.Heptachlor2021Levels lower than detect tevel0-00200pptNoResidue of banned insecticide.Hexachiorobenzene2021Levels lower than detect tevel0-001ppbNoBischarge from neterineiras and agricultural chemical factories.Hexachiorobenzene2021Levels lower than detect tevel0-0200pptNoBischarge from netericide used on cattle, lumber, an gardens.Metachioropchoend2021Levels lower than 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 detect level       0 - 0       0       200       ppt       No       Rundf / Haching from solit lumgiant used on soybeans, cotto pineapples, and orchards.         Endrin       2021       Levels lower than detect level       0 - 0       2       2       ppb       No       Rundf / Haching from solitical used on soybeans, cotto pineapples, and orchards.         Ethylene dibromide       2019       Levels lower than detect level       0 - 0       0       50       ppt       No       Residue of banned insecticide.         Heptachlor       2021       Levels lower than detect level       0 - 0       0       400       ppt       No       Residue of banned termiticide.         Heptachlor epoxide       2021       Levels lower than detect level       0 - 0       0       200       ppt       No       Breakdown of heptachlor.         Hexachlorobenzene       2021       Levels lower than detect level       0 - 0       50       50       ppb       No       Discharge from metal refineries and agricultural chemical factories.         Hexachlorobenzene       2021       Levels lower than 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 detect level0 - 077ppbNoRundff from herbicide used on soybeans and vegetables.Endrin2021Levels (over than detect level0 - 022ppbNoResidue of banned insecticide.Ethylene dibromide2019Levels (over than detect level0 - 0050pptNoResidue of banned insecticide.Heptachlor2021Levels (over than detect level0 - 00400pptNoResidue of banned insecticide.Heptachlor epxide2021Levels (over than detect level0 - 00400pptNoResidue of banned insecticide.Hexachlorobenzene2021Levels (over than detect level0 - 001ppbNoBreakdown of heptachlor.Hexachlorocyclopentadiene2021Levels (over than detect level0 - 05050ppbNoBicharge from metal refineries and agricultural chemical factories.Lindane2021Levels (over than detect level0 - 0200200pptNoRunoff / Jeaching from insecticide used on cattle, lumber, and garens.Methoxychlor2021Levels (over than detect level0 - 0200200ppbNoRunoff / Jeaching from insecticide used on cattle, lumber, and 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, pineapples, and orchards.			
Endmin2021detect level0 - 0222pp0NoResidue of banned insecticide.Ethylene dibromide2019Levels lower than detect level0 - 0050pptNoDischarge from petroleium refineries.Heptachlor2021Levels lower than detect level0 - 00400pptNoResidue of banned termiticide.Heptachlor epoxide2021Levels lower than detect level0 - 00200pptNoBreakdown of heptachlor.Hexachlorobenzene2021Levels lower than 	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 detect level0 - 00400pptNoResidue of banned termiticide.Heptachlor epoxide2021Levels lower than detect level0 - 00200pptNoBreakdown of heptachlor.Hexachlorobenzene2021Levels lower than detect level0 - 001ppbNoBreakdown of heptachlor.Hexachlorocyclopentadiene2021Levels lower than detect level0 - 05050pptNoDischarge from metal refineries and agricultural chemical factories.Lindane2021Levels lower than detect level0 - 0200200pptNoRunoff / leaching from insecticide used on cattle, lumber, an gardens.Methoxychlor2021Levels lower than detect level0 - 04040ppbNoRunoff / leaching from insecticide used on apples, potatoes, atfalfa, and livestock.Oxamy [Vydate]2019Levels lower than detect level0 - 0200200ppbNoRunoff / leaching from insecticide used on apples, potatoes, tomatoes.Pentachlorophenol2019Levels lower than detect level0 - 001ppbNoRunoff / leaching from insecticide used on apples, potatoes, tomatoes.Pictoram2019Levels lower than 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 detect level0 - 00200pptNoBreakdown of heptachlor.Hexachlorobenzene2021Levels lower than detect level0 - 001ppbNoDischarge from metal refineries and agricultural chemical factories.Hexachlorocyclopentadiene2021Levels lower than detect level0 - 05050pptNoDischarge from chemical factories.Lindane2021Levels lower than detect level0 - 0200200pptNoRunoff / leaching from insecticide used on cattle, lumber, an gardens.Methoxychlor2021Levels lower than detect level0 - 0200200pptNoRunoff / leaching from insecticide used on fulls, vegetables, affafa, and livestock.Oxamyl [Vydate]2019Levels lower than detect level0 - 0200200ppbNoRunoff / leaching from insecticide used on apples, potatoes, tomatoes.Pentachlorophenol2019Levels lower than 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 detect level0 - 001ppbNoDischarge from metal refineries and agricultural chemical factories.Hexachlorocyclopentadiene2021Levels lower than detect level0 - 05050ppbNoDischarge from chemical factories.Lindane2021Levels lower than detect level0 - 0200200pptNoRunoff / leaching from insecticide used on cattle, lumber, an gardens.Methoxychlor2021Levels lower than detect level0 - 04040ppbNoRunoff / leaching from insecticide used on fruits, vegetables, alfalfa, and livestock.Oxamyl [Vydate]2019Levels lower than detect level0 - 0200200ppbNoRunoff / leaching from insecticide used on apples, potatoes, tomatces.Pentachlorophenol2019Levels lower than detect level0 - 001ppbNoBischarge from wood preserving factories.Pictoram2019Levels lower than 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 detect level0 - 05050ppbNoDischarge from chemical factories.Lindane2021Levels lower than detect level0 - 0200200pptNoRunoff / leaching from insecticide used on cattle, lumber, an gardens.Methoxychlor2021Levels lower than detect level0 - 04040ppbNoRunoff / leaching from insecticide used on fruits, vegetables, atfafa, and livestock.Oxamyl [Vydate]2019Levels lower than detect level0 - 0200200ppbNoRunoff / leaching from insecticide used on apples, potatoes, atfafa, and insecticide used on apples, potatoes, atfafa, and insecticide used on apples, potatoes, atfafa, and insecticide used on apples, potatoes, detect levelOxamyl [Vydate]2019Levels lower than detect level0 - 001ppbNoDischarge from wood preserving factories.Pentachlorophenol2019Levels lower than detect level0 - 0500500ppbNoHerbicide runoff.Simazine20210.120.08 - 0.1244ppbNoRunoff / leaching from insecticide used on cotton and cattle.Toxaphene2021Levels lower than 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 detect level0 - 0200200pptNoRunoff / leaching from insecticide used on cattle, lumber, an gardens.Methoxychlor2021Levels lower than detect level0 - 04040ppbNoRunoff / leaching from insecticide used on fults, vegetables, alfalfa, and livestock.Oxamyl [Vydate]2019Levels lower than detect level0 - 001ppbNoRunoff / leaching from insecticide used on apples, potatoes, tomatoes.Pentachlorophenol2019Levels lower than detect level0 - 001ppbNoDischarge from wood preserving factories.Picloram2019Levels lower than 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 detect level0 - 0200200ppbNoDischarge from metal degreasing sites and other factories.1, 1, 2, Trichloroethane2021Levels lower than detect level0 - 0200200ppbNo	Hexachlorobenzene	2021		0 - 0	0	1	ppb	No				
Lindane2021detect level0 - 0200200pptNogardens.Methoxychlor2021Levels lower than detect level0 - 04040ppbNoRunoff / leaching from insecticide used on fruits, vegetables, atfat, and it vestock.Oxamyl [Vydate]2019Levels lower than detect level0 - 0200200ppbNoRunoff / leaching from insecticide used on apples, potatoes, tomatoes.Pentachlorophenol2019Levels lower than detect level0 - 001ppbNoDischarge from wood preserving factories.Pictoram2019Levels lower than detect level0 - 0500500ppbNoHerbicide runoff.Simazine20210.120.08 - 0.1244ppbNoRunoff / leaching from insecticide used on cotton and cattle.Volatile Organic ContaminantsCollection DateHignest Level Detected0 - 003ppbNoRunoff / leaching from insecticide used on cotton and cattle.1, 1, 1 - Trichloroethane2021Levels lower than detect level0 - 0200200ppbNoDischarge from metal degreasing sites and other factories.1, 1, 1 - Trichloroethane2021Levels lower than detect level0 - 0200200ppbNoDischarge from metal degreasing sites and other factories.1, 1, 2, Trichloroethane2021Levels lower than 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 gardens.			
Oxarity (vydate)       2019       detect level       0 - 0       200       200       ppb       No       tomatoes.         Pentachlorophenol       2019       Levels lower than detect level       0 - 0       0       1       ppb       No       Discharge from wood preserving factories.         Picloram       2019       Levels lower than 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 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 detect level       0 - 0       200       200       ppb       No       Discharge from metal degreasing sites and other factories.         1, 1, 2 - Trichloroethane       2021       Levels lower than 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, alfalfa, and livestock.			
Pentachiorophenol       2019       detect level       0 - 0       0       1       ppb       No       Discharge from wood preserving factories.         Picloram       2019       Levels lower than 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 detect level       0 - 0       0       3       ppb       No       Runoff / leaching from insecticide used on cotton and cattle.         Volatile Organic Contaminants       Collection Date       Detected Highest Level       Range of Levels Detected       MCLG       MCL       Units       Violation       Likely Source of Contamination         1, 1, 1 - Trichloroethane       2021       Levels lower than detect level       0 - 0       200       200       ppb       No       Discharge from metal degreasing sites and other factories.         1, 1, 2 - Trichloroethane       2021       Levels lower than 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 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 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 detect level     0 - 0     3     5     npb     No     Discharge from metal degreasing sites and other factories.       1, 1, 2 - Trichloroethane     2021     Levels lower than 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 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 detect level     0 - 0     200     200     ppb     No     Discharge from metal degreasing sites and other factories.       1, 1, 2 - Trichloroethane     2021     Levels lower than 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 Detected         Range of Levels Detected         MCLG         MCL         Units         Violation         Likely Source of Contamination           1, 1, 1 - Trichloroethane         2021         Levels lower than detect level         0 - 0         200         200         ppb         No         Discharge from metal degreasing sites and other factories.           1, 1, 2 - Trichloroethane         2021         Levels lower than 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 detect level         0 - 0         200         200         ppb         No         Discharge from metal degreasing sites and other factories.           1, 1, 2 - Trichloroethane         2021         Levels lower than 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 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 detect level	0 - 0	0	5	ppb	No	Discharge from factories; leaching from gas storage tanks and landfills.			
	Carbon Tetrachloride	2021	Levels lower than 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 detect level	0 - 0	100	100	ppb	No	Discharge from chemical and agricultural chemical factories.					
Dichloromethane	2021	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from pharmaceutical and chemical factories.					
Ethylbenzene	2021	Levels lower than detect level	0 - 0	0	700	ppb	No	Discharge from petroleum refineries.					
Styrene	2021	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from rubber and plastic factories; leaching from landfills.					
Tetrachloroethylene	2021	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories and dry cleaners.					
Toluene	2021	Levels lower than detect level	0 - 0	1	1	ppm	No	Discharge from petroleum factories.					
Trichloroethylene	2021	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from metal degreasing sites and other factories.					
Vinyl Chloride	2021	Levels lower than detect level	0 - 0	0	2	ppb	No	Leaching from PVC piping; discharge from plastics factories.					
Xylenes	2021	Levels lower than detect level	0 - 0	10	10	ppm	No	Discharge from petroleum factories; discharge from chemical factories.					
cis - 1, 2 - Dichloroethylene	2021	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge from industrial chemical factories.					
o - Dichlorobenzene	2021	Levels lower than detect level	0 - 0	600	600	ppb	No	Discharge from industrial chemical factories.					
p - Dichlorobenzene	2021	Levels lower than detect level	0 - 0	75	75	ppb	No	Discharge from industrial chemical factories.					
trans - 1, 2 - Dicholoroethylene	2021	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from industrial chemical factories.					
Turbidity													
Limit (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 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 Quarterly Data			cause it is	a good indic	ator of wate						
of our filtration.		Average Level of	Maximum Res	Highest Result of	cause it is	a good indic	Units	r quality and the effectiveness					
of our filtration. Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide	Year 2021 2021	Average Level of Quarterly Data 2.9 0	Maximum Res Lowest Result of Single Sample 1.6 0	Highest Result of Single Sample 4.2 0	MRDL 4.00 0.80	a good indic Int Leve MRDLG <4.0 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> 2021	Average Level of Quarterly Data 2.9	Maximum Res Lowest Result of Single Sample 1.6	Highest Result of Single Sample 4.2	cause it is infecta MRDL 4.00	a good indic int Leve MRDLG <4.0	Units	r quality and the effectiveness Source of Chemical Disinfectant used to control microbes.					
of our filtration. Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide	Year 2021 2021 2021 2021 ired to maintain	Average Level of Quarterly Data 2.9 0 0.105 a minimum chlorine	Lowest Result of Single Sample	Highest Result of Single Sample 4.2 0 0.97	<b>MRDL</b> 4.00 0.80 1.00	a good indic Int Leve MRDLG <4.0 0.80 N/A	Units ppm ppm 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 2021 2021 2021 2021 ired to maintain	Average Level of Quarterly Data 2.9 0 0.105 a minimum chlorine	Lowest Result 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 Result of Single Sample 4.2 0 0.97	MRDL           4.00           0.80           1.00           ion (ppm) f	MRDLG <4.0 0.80 N/A or systems of	Units ppm ppm 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 2021 2021 2021 2021 ired to maintain	Average Level of Quarterly Data 2.9 0.105 a minimum chlorine ween 0.5 (ppm) and	Maximum Res           Lowest Result of Single Sample           1.6           0           1           0           1           0           0           0           0           0           0	Highest Result of Single Sample 4.2 0 0.97 5 parts per mill Organic C	MRDL 4.00 0.80 1.00 ion (ppm) f	a good indic Int Leve MRDLG <4.0 0.80 N/A for systems of	Units ppm ppm disinfecting v	Source of Chemical         Disinfectant used to control microbes.         Disinfectant.					
Disinfectant Type Disinfectant Type Chlorine Residual (Chloramines) Chlorine Dioxide Chlorite NOTE: Water providers are requ average chlorine disinfection resi	Year 2021 2021 2021 ired to maintain dual level of bet Collection Date	Average Level of Quarterly Data 2.9 0.105 a minimum chlorine 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 Result of Single Sample 4.2 0 0.97 5 parts per mill	Antering and the second	a good indic Int Leve MRDLG <4.0 0.80 N/A or systems of Urr	Units ppm ppm 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 2021 2021 2021 2021 ired to maintain dual level of bet	Average Level of Quarterly Data 2.9 0.105 a minimum chlorine ween 0.5 (ppm) and	Maximum Res           Lowest Result of Single Sample           1.6           0           1           0           1           0           0           0           0           0           0	Highest Result of Single Sample 4.2 0 0.97 5 parts per mill Organic (C Range of Level 3.69 - 4 2.01 - 4	cause it is infecta MRDL 4.00 0.80 1.00 ion (ppm) f carbon s Detected .66 .01	a good indic mt Leve MRDLG <4.0 0.80 N/A or systems of Um pp	Units ppm ppm ppm disinfecting v	Source of Chemical Disinfectant used to control microbes. Disinfectant. Disinfectant. 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 2021 2021 ired to maintain dual level of beta Collection Date 2021	Average Level of Quarterly Data 2.9 0.105 a minimum chlorine ween 0.5 (ppm) and	Maximum Res         Lowest Result of Single Sample         1.6         0	Highest Result of Single Sample 4.2 0 0.97 5.5 parts per mill Organic ( Range of Level 3.69 - 4	cause it is infecta MRDL 4.00 0.80 1.00 ion (ppm) f carbon s Detected .66 .01	a good indic mt Leve MRDLG <4.0 0.80 N/A or systems of Um pp	Units ppm ppm ppm ppm 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 2021 2021 2021 2021 2021 2021 2021 202	Average Level of Quarterly Data 2.9 0 0.105 a minimum chlorine ween 0.5 (ppm) and offects. The disinf By-products of disi	Maximum Res           Lowest Result 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 infection include trihalomethane	Highest Result of Single Sample 4.2 0 0.97 5 parts per mill Organic (C Range of Level 3.69 - 4 2.01 - 4 1.9 - 44 p form disinfect is (THMs) and H	Cause it is infecta MRDL 4.00 0.80 1.00 ion (ppm) f Carbon S Detected .66 .01 .00 on by-prod aloacetic z	a good indic mr Leve MRDLG <4.0 0.80 N/A or systems of Un PFP PF PF pf v fer ucts. Disinfe 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 2021 2021 2021 2021 2021 2021 2021 202	Average Level of Quarterly Data 2.9 0 0.105 a minimum chlorine ween 0.5 (ppm) and offects. The disinf By-products of disi	Maximum Res           Lowest Result 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 infection include trihalomethane zess divided by the percent of T	Highest Result of Single Sample 4.2 0 0.97 5 parts per mill Organic ( Range of Level 3.69 - 4 2.01 - 4 1.9 - 44 o form disinfecti is (THMs) and f OC required by	MRDL 4.00 0.80 1.00 ion (ppm) f Carbon s Detected .66 .01 5.0 on by-prod on by-prod on by-prod on by-prod	a good indic mr Leve MRDLG <4.0 0.80 N/A or systems of Un PP PF % rem vectors (HAA) 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 2021 2021 2021 2021 2021 2021 2021 202	Average Level of Quarterly Data 2.9 0.105 a minimum chlorine ween 0.5 (ppm) and n effects. The disinf By-products of disi y the treatment proc	Maximum Res           Lowest Result 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           cetant can combine with TOCt to infection include trihalomethane zess divided by the percent of T           Cryptospe	Highest Result of Single Sample 4.2 0 0.97 5 parts per mill Organic ( Range of Level 3.69 - 4 2.01 - 4 1.9 - 44 o form disinfecti is (THMs) and f OC required by	MRDL 4.00 0.80 1.00 ion (ppm) f Carbon s Detected .66 .01 5.0 on by-prod on by-prod on by-prod on by-prod	a good indic mr Leve MRDLG <4.0 0.80 N/A or systems of Un PP PF % rem vectors (HAA) 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 2021 2021 ired to maintain dual level of bet 2021 2021 Collection Date 2021 C) has no healti ls of pathogens TOC removed b Collection Date	Average Level of Quarterly Data 2.9 0.105 a minimum chlorine ween 0.5 (ppm) and n effects. The disinf By-products of disi y the treatment proc	Maximum Res         Lowest Result of Single Sample         1.6         0	Highest Result of Single Sample 4.2 0 0.97 5 parts per mill Organic ( Range of Level 3.69 - 4 2.01 - 4 1.9 - 4t of orm disinfect s (THMs) and h OC required by oridium a Range of Level	MRDL 4.00 0.80 1.00 ion (ppm) f Carbon s Detected .66 .01 .50 on by-prod naloacetic c TCEQ to b nd Gia s Detected	a good indic mr Leve MRDLG <4.0 0.80 N/A for systems of pp pp % rem ucts. Disinfection pr pr % rem ucts. Disinfection called (HAA) per emoved. rdia Um 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 2021 2021 2021 2021 2021 2021 2021 202	Average Level of Quarterly Data 2.9 0.105 a minimum chlorine ween 0.5 (ppm) and n effects. The disinf By-products of disi y the treatment proc	Maximum Res         Lowest Result 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 infection include trihalomethane zess divided by the percent of T         Cryptospo         Highest Level         Detected         0	Highest Result of Single Sample 4.2 0 0.97 5 parts per mill Organic ( Range of Level 3.69 - 4 2.01 - 4 1.9 - 44 0 form disinfecti os (THMs) and f OC required by Dridium a	Ause it is MRDL 4.00 0.80 1.00 ion (ppm) f Carbon s Detected .66 .01 5.0 on by-prodot nd Gia s Detected s Detected	a good indic Int Leve MRDLG <4.0 0.80 N/A or systems of PP PP % rem ucts. Disinfe acids (HAA) be removed. rdia Uur (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 2021 2021 ired to maintain dual level of bet 2021 2021 Collection Date 2021 C) has no healti ls of pathogens TOC removed b Collection Date	Average Level of Quarterly Data 2.9 0.105 a minimum chlorine ween 0.5 (ppm) and n effects. The disinf By-products of disi y the treatment proc	Maximum Res         Lowest Result of Single Sample         1.6         0	Highest Result of Single Sample 4.2 0 0.97 5 parts per mill Organic ( Range of Level 3.69 - 4 2.01 - 4 1.9 - 4t of orm disinfect s (THMs) and h OC required by oridium a Range of Level	Ause it is MRDL 4.00 0.80 1.00 ion (ppm) f Carbon s Detected .66 .01 5.0 on by-prodot nd Gia s Detected s Detected	a good indic Int Leve MRDLG <4.0 0.80 N/A or systems of PP PP % rem ucts. Disinfe acids (HAA) be removed. rdia Uur (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 Sampled	Action 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 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 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, 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 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. 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 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 dibromochloromethane are disinfection by-products. There is no maximum contaminan				By-product of drinking water disinfection.				
Contaminants	Collection Date		Secondary and Oth Highest Level 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 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 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 CHEMICAL MONITORING, 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. North Texas Municipal Water District E. Brown Street Wylie, TX

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

Coliform Bacteria										
Maximum Contaminant Level Goal 0	Total Coliform Maximum Contaminant Level 1 positive monthly sample		Highest No. of Positive Cust#	Fecal Coliform or E. Coli Maximum Contaminant Level 0	Total No. E. Coli Coliforn C	Total No. of Positive E. Coli or Fecal Coliform Samples Cust#		Likely Source of Contamination Naturally present in the environment.		
NOTE: Reported monthly tests for 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 Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination		
Total Haloacetic Acids (HAA5)	2021	Cust#	Cust#	No goal for the total	60	ppb	Cust#	By-product of drinking water disinfection.		
Total Trihalomethanes (TTHM)	2021	Cust#	Cust#	No goal for 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 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 Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination		
Antimony	2021	Levels lower than 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 detect level	0 - 0	0	10	ppb	No	Erosion of natural deposits; runoff from orchards; runoff from 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; erosion of natural deposits.		
Beryllium	2021	Levels lower than detect level	0 - 0	4	4	ppb	No	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries.		
Cadmium	2021	Levels lower than detect level	0 - 0	5	5	ppb	No	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints.		
Chromium	2021	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from steel and pulp mills; erosion of natural deposits.		
Cyanide	2021	Levels lower than detect level	0 - 0	200	200	ppb	No	Discharge from steel/metal factories; Discharge from plastics and fertilizer factories.		
Fluoride	2021	0.527	0.527 - 0.527	4	4	ppm	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.		
Mercury	2021	Levels lower than detect level	0 - 0	2	2	ppb	No	Erosion of natural deposits; discharge from refineries and 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; erosion of natural deposits.		
Selenium	2021	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.		
Thallium	2021	Levels lower than detect level	0 - 0	0.5	2	ppb	No	Discharge from electronics, glass, and leaching from ore- processing sites; drug factories.		
Nitrate Advisory: Nitrate in drinkir baby syndrome. Nitrate levels ma care provider.										
Radioactive Contaminants	Collection Date	Highest Level 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 radon and uranium	2021	Levels lower than detect level	0 - 0	0	15	pCi/L	No	Erosion of natural deposits.		
Radium	2021	Levels lower than detect level	0 - 0	0	5	pCi/L	No	Erosion of natural deposits.		

Synthetic organic contaminants	Synthetic organic contaminants											
including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination				
2, 4, 5 - TP (Silvex)	2021	Levels lower than detect level	0 - 0	50	50	ppb	No	Residue of banned herbicide.				
2, 4 - D	2021	Levels lower than 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 detect level	0 - 0	1	3	ppb	No	Runoff from agricultural pesticide.				
Aldicarb Sulfone	2021	Levels lower than detect level	0 - 0	1	2	ppb	No	Runoff from agricultural pesticide.				
Aldicarb Sulfoxide	2021	Levels lower than 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 detect level	0 - 0	0	200	ppt	No	Leaching from linings of water storage tanks and distribution lines.				
Carbofuran	2021	Levels lower than detect level	0 - 0	40	40	ppb	No	Leaching of soil fumigant used on rice and alfalfa.				
Chlordane	2021	Levels lower than detect level	0 - 0	0	2	ppb	No	Residue of banned termiticide.				
Dalapon	2021	Levels lower than detect level	0 - 0	200	200	ppb	No	Runoff from herbicide used on rights of way.				
Di (2-ethylhexyl) adipate	2021	Levels lower than detect level	0 - 0	400	400	ppb	No	Discharge from chemical factories.				
Di (2-ethylhexyl) phthalate	2021	Levels lower than detect level	0 - 0	0	6	ppb	No	Discharge from rubber and chemical factories.				
Dibromochloropropane (DBCP)	2021	Levels lower than detect level	0 - 0	0	200	ppt	No	Runoff / leaching from soil fumigant used on soybeans, cotton, 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 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 detect level	0 - 0	0	200	ppt	No	Breakdown of heptachlor.				
Hexachlorobenzene	2021	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge from metal refineries and agricultural chemical factories.				
Hexachlorocyclopentadiene	2021	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from chemical factories.				
Lindane	2021	Levels lower than detect level	0 - 0	200	200	ppt	No	Runoff / leaching from insecticide used on cattle, lumber, and gardens.				
Methoxychlor	2021	Levels lower than detect level	0 - 0	40	40	ppb	No	Runoff / leaching from insecticide used on fruits, vegetables, alfalfa, and livestock.				
Oxamyl [Vydate]	2021	Levels lower than detect level	0 - 0	200	200	ppb	No	Runoff / leaching from insecticide used on apples, potatoes, and tomatoes.				
Pentachlorophenol	2021	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge from wood preserving factories.				
Picloram	2021	Levels lower than detect level	0 - 0	500	500	ppb	No	Herbicide runoff.				
Simazine	2021	Levels lower than detect level	0 - 0	4	4	ppb	No	Herbicide runoff.				
Toxaphene	2021	Levels lower than detect level	0 - 0	0	3	ppb	No	Runoff / leaching from insecticide used on cotton and cattle.				
Volatile Organic Contaminants	Collection Date	Highest Level 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 Levels lower than	0 - 0	3	5	ppb	No	Discharge from industrial chemical factories.				
1, 1 - Dichloroethylene	2021	detect level Levels lower than	0 - 0	7	7	ppb	No	Discharge from industrial chemical factories.				
1, 2, 4 - Trichlorobenzene	2021	detect level Levels lower than detect level	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 - Dichloropropane	2021	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from industrial chemical factories.				
Benzene	2021	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories; leaching from gas storage tanks and landfills.				
Carbon Tetrachloride	2021	Levels lower than 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 Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination		
Chlorobenzene	2021	Levels lower than detect level	0 - 0	100	100	0 ppb No		Discharge from chemical and agricultural chemical factories.		
Dichloromethane	2021	Levels lower than detect level	0 - 0	0	5	ppb No		Discharge from pharmaceutical and chemical factories.		
Ethylbenzene	2021	Levels lower than detect level	0 - 0	0	700	ppb	No	Discharge from petroleum refineries.		
Styrene	2021	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from rubber and plastic factories; leaching from landfills.		
Tetrachloroethylene	2021	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories and dry cleaners.		
Toluene	2021	Levels lower than detect level	0 - 0	1	1	ppm	No	Discharge from petroleum factories.		
Trichloroethylene	2021	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from metal degreasing sites and other factories.		
Vinyl Chloride	2021	Levels lower than detect level	0 - 0	0	2	ppb	No	Leaching from PVC piping; discharge from plastics factories.		
Xylenes	2021	Levels lower than detect level	0 - 0	10	10	ppm	No	Discharge from petroleum factories; discharge from chemical factories.		
cis - 1, 2 - Dichloroethylene	2021	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge from industrial chemical factories.		
o - Dichlorobenzene	2021	Levels lower than detect level	0 - 0	600	600	ppb	No	Discharge from industrial chemical factories.		
p - Dichlorobenzene	2021	Levels lower than detect level	0 - 0	75	75	ppb	No	Discharge from industrial chemical factories.		
trans - 1, 2 - Dicholoroethylene	2021	Levels lower than 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 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 does not have unacceptable leve * 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 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 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 Sampled	Action 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; 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 but cannot control the variety of 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 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, 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 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. 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 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 Highest Level				Likely Source of Contamination				
			Detected 0.082	Range of Levels Detected	-	nits	-				
Aluminum	2021 2021		61.5	0.082 - 0.082 40.4 - 61.5		pm	Erosion of natural deposits.				
Calcium Chloride	2021		17.1	12.2 - 17.1		pm pm	Abundant naturally occurring element. Abundant naturally occurring element; used in water purification; 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 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 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 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 (HAA5)	2021	16.2	12.6-22.8	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2021	29.4	16.6-37.5	No goal for 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.