2022 ANNUAL DRINKING WATER QUALITY REPORT

TX1290021

NORTH KAUFMAN WATER SUPPLY CORPORATION

important information about your drinking water and the efforts made by the water system to provide safe drinking water. Annual Water Quality Report for the period of January 1 to December 31, 2022. This report is intended to provide you with

For more information regarding this report contact:

Greg Perkins / General Manager

Phone: (972)-962-7614

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

North Kaufman WSC is a Purchased Surface Water North Kaufman WSC Board Meetings are held the third Monday of each month at 6 pm at 3891 N. State Hwy. 34, Kaufman, TX.

Sources of Drinking Water

radioactive material and can pick up substances resulting from the presence of animals or from human activity. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells.

and potential health effects can be obtained by calling the EPS's Safe Drinking Water Hotline at (800)-426-4791. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants

Contaminants that may be present in source water include

agricultural livestock operations, and wildlife. Microbial contaminants, such as viruses and bacteria which may come from sewage treatment plants, septic systems,

- runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming Inorganic contaminants, such as salts and metals which can be naturally occurring or result from urban storm water
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and
- 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
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining

same protection for public health. water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the number of certain contaminants in

necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are

system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or from the Safe Drinking Water Hotline (800)-426-4791 health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy; persons who have You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking

water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 for providing high quality drinking water, but we cannot control the variety of materials used in plumbing components. When your drinking water is primarily from materials and components associated with service lines and home plumbing. We are responsible If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in

tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead. minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water

Information about Source Water Assessments

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

For more information about your sources of water, please refer to the Source Water at the following URL: http://www.tceq.texas.gov.DWW

SW from City of Terrell	SW from City of Kaufman	Source Water Name
CC from TX12900006 City of	CC from TX1290003 City of	
ws	WS	Type of Water
Active	Active	Report Status
Lake Lavon & Lake Tawakoni	Lake Lavon	Location

2022 Regulated Contaminants Detected

Lead and Copper

Definitions:

ALG's allow for a margin of safety. Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health.

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

				_	Lead a
Lead				Copper	Lead and Copper
2022				2022	Date Sampled
.015				1.3	MCLG
15				1.3	MCLG Action Level (AL) 90 th Percentile
1.7				0.51	90 th Percentile
0				0	# Sites Over AL
ppb				ppm	Units
Z				z	Violation
Corrosion of household plumbing systems; erosion of natural deposits.	household plumbing systems.	preservatives; corrosion of	leaking from wood	Erosion of natural deposits;	# Sites Over AL Units Violation Likely Contamination Source

Water Quality Test Results

:	
	g tand somall continue to the and incusation, some of which may require explanation.
AVG:	Regulatory compliance with some MCL's is based on running annual average of monthly samples.
Max Contaminant Level (MCL):	The highest level of a contaminant allowed in drinking water.
Level I Assessment:	Level 1 assessment is the study of the water system to identify problems and determine, (if possible) why total coliform bacteria have been found in our water system.

	Max Contaminate Level Goal (MCGL): The level of a con
MCGL's allow for a margin of safety.	The level of a contaminant in drinking water below which there is no known or expected risk to health.

		Level 2 Assessment:
been found in our water system on multiple occasions.	determine (if possible) why an E coli MCL violation has occurred and/or why total coliform bacteria have	Level 2 assessment is a very detailed study of the water system to identify potential problems and

(MRDL):	Max Residual Disinfectant Level
disinfectant is necessary for control of microbial contaminants.	Highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a

Water Quality Test Results (continued)

Max Residual Disinfectant Level | |
Goal (MRDLG): |

contaminants. health. MRDLG's do not reflect benefits of using disinfectants to control microbial. Level of a drinking water disinfectant below which there is no known or expected risk to

MFL:

Million fibers per liter (a measure of asbestos).

Na:

Not applicable.

mrem:

Millirems per year (a measure of radiation absorbed by the body).

pCi/L:

NTU:

Nephelometric turbidity units (a measure of turbidity).

3

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.

Required process intended to reduce the level of a contaminant in drinking water.

Treatment Technique (TT):

Parts per trillion, or nanograms per liter (ng/L).

ppt:

ppq:

Parts per quadrillion, or pictograms per liter (pg/L).

Regulated Contaminants

disinfection.	-	77	8	total	10.0-21.0	23.0	7077	Trihalomethanes (TTHM)
By-product of drinking water disinfection.	z z	3 PB	80 60	No goal for the	16.6-22.8	70.8	2022	Haloacetic Acids (HAAS)
					Detected			Products
Likely Contamination Source	Violation	Units	MCL	MCLG	Range of Levels	Highest Level Detected	Collection Date	Disinfectants and Disinfection By-

septic tanks, sewage; Erosion of natural deposits.								(measured as Nitrogen)	
Runoff from fertilizer use; Leaking from	z	ppm	10	10	0.29029	0.29	2022	Nitrate	
					Detected				
					Levels	Detected	Date	Contaminants	
Likely Contamination Source	Violation	Units	MCL	MCLG	Range of	Highest Level	Collection	Inorganic	

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 materials.

Violations Table (Continued)

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

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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 Ending Date 12/31/2018									Violation lype Violation B
								1/1/2017 12/31	Violation Beginning Date Violation E
	members for consumption	2016. No water from this	reported out of service since	to supply memb	question was not being used	because the location in	monitoring this location	/2018 NKWSC was not actively	nding Date Violation Explanation

NTMWD Wylie Water Treatment Plants Water Quality Data for Year 2022

	CORNAL TO SERVE RANGES CONTROL		water Quality		THE REPORT OF THE PERSON NAMED IN COLUMN 1	our a		
			Coli	form Bac	teria			
Maximum Contaminant Level Goal 0 OTE: Reported monthly tests for otentially harmful, bacteria may	Contam 1 positive n ound no fecal co	orm Maximum Inant Level nonthly sample liform bacteria. Co	Highest No. of Positive 0.00 iforms are bacteria that are natu	Fecal Coliform or E. Coli Maximum Contaminant Level 0 rally present in	E. Coli Coliforn	of Positive or Fecal a Samples 0 nment and a		Likely Source of Contamination Naturally present in the environment. an indicator that other,
otentially naminul, bacteria may	be present.		Regulat	ed Conta	minan	ts		
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)	2022	24.8	9.2 - 24.8	No goal for the total	60	ppb	No	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2022	62.8	21.9 - 62.80	No goal for the total	80	ppb	No	By-product of drinking water disinfection.
Bromate	2022	4.9	4.9 - 4.9	5	10	ppb	No	By-product of drinking water ozonation.
			ne Highest Level Detected becau e annually for compliance testing					
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Antimony	2022	Levels lower than detect level	0-0	6	6	ppb	No	Discharge from petroleum refineries; fire retardants; ceramics electronics; solder; and test addition.
Arsenic	2022	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	2022	0.061	0.060 - 0.061	2	2	ppm	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Beryllium	2022	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	2022	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 ar paints.
Chromium	2022	Levels lower than detect level	0-0	100	100	ppb	No	Discharge from steel and pulp mills; erosion of natural deposit
Cyanide	2022	2022	Levels lower than detect level	0-0	200	ppb	No	Discharge from steel/metal factories; Discharge from plastics and fertilizer factories.
Fluoride	2022	0.688	0.278 - 0.688	4	4	ppm	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Mercury	2022	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)	2022	0.439	0.158 - 0.439	10	10	ppm	No	Runoff from fertilizer use; leaching from septic tanks; sewage erosion of natural deposits.
Selenium	2022	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	2022	Levels lower than detect level	0 - 0	0.5	2	ppb	No	Discharge from electronics, glass, and leaching from ore- processing sites; drug factories.
litrate Advisory: Nitrate in drink aby syndrome. Nitrate levels ma are provider.	ing water at leve ay rise quickly fo	or short periods of t	a health risk for infants of less t ime because of rainfall or agricul	han six months tural activity. If	s of age. H you are ca	igh nitrate le aring for an i	vels in drink nfant you sh	ing water can cause blue ould ask advice from your health
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2022	4.7	4.7 - 4.7	0	50	pCi/L	No	Decay of natural and man-made deposits.

15

5

pCi/L

pCi/L

No

Erosion of natural deposits.

Erosion of natural deposits.

Gross alpha excluding radon and uranium

Radium

Levels lower than detect level

Levels lower than detect level

2022

0 - 0

0-0

NTMWD Wylie Water Treatment Plants Water Quality Data for Year 2022 (Cont.)

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)	2022	Levels lower than detect level	0 - 0	50	50	ppb	No	Residue of banned herbicide.
2, 4 - D	2022	Levels lower than detect level	0-0	70	70	ppb	No	Runoff from herbicide used on row crops.
Alachlor	2022	Levels lower than detect level	0-0	0	2	ppb	No	Runoff from herbicide used on row crops.
Aldicarb	2022	Levels lower than detect level	0-0	1	3	ppb	No	Runoff from agricultural pesticide.
Aldicarb Sulfone	2022	Levels lower than detect level	0-0	1	2	ppb	No	Runoff from agricultural pesticide.
Aldicarb Sulfoxide	2022	Levels lower than detect level	0-0	1	4	ppb	No	Runoff from agricultural pesticide.
Atrazine	2022	0.12	0.10 - 0.12	3	3	ppb	No	Runoff from herbicide used on row crops.
Benzo (a) pyrene	2022	Levels lower than detect level	0-0	0	200	ppt	No	Leaching from linings of water storage tanks and distribution lines.
Carbofuran	2022	Levels lower than detect level	0-0	40	40	ppb	No	Leaching of soil fumigant used on rice and alfalfa.
Chlordane	2022	Levels lower than detect level	0-0	0	2	ppb	No	Residue of banned termiticide.
Dalapon	2022	Levels lower than detect level	0-0	200	200	ppb	No	Runoff from herbicide used on rights of way.
Di (2-ethylhexyl) adipate	2022	Levels lower than detect level	0 - 0	400	400	ppb	No	Discharge from chemical factories.
Di (2-ethylhexyl) phthalate	2022	Levels lower than detect level	0 - 0	0	6	ppb	No	Discharge from rubber and chemical factories.
Dibromochloropropane (DBCP)	2022	Levels lower than detect level	0 - 0	0	200	ppt	No	Runoff / leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards.
Dinoseb	2022	Levels lower than detect level	0 - 0	7	7	ppb	No	Runoff from herbicide used on soybeans and vegetables.
Endrin	2022	Levels lower than detect level	0-0	2	2	ppb	No	Residue of banned insecticide.
Ethylene dibromide	2022	Levels lower than detect level	0 - 0	0	50	ppt	No	Discharge from petroleium refineries.
Heptachlor	2022	Levels lower than detect level	0-0	0	400	ppt	No	Residue of banned termiticide.
Heptachlor epoxide	2022	Levels lower than detect level	0 - 0	0	200	ppt	No	Breakdown of heptachlor.
Hexachlorobenzene	2022	Levels lower than detect level	0-0	0	1	ppb	No	Discharge from metal refineries and agricultural chemical factories.
Hexachlorocyclopentadiene	2022	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from chemical factories.
Lindane	2022	Levels lower than detect level	0-0	200	200	ppt	No	Runoff / leaching from insecticide used on cattle, lumber, and gardens.
Methoxychlor	2022	Levels lower than detect level	0-0	40	40	ppb	No	Runoff / leaching from insecticide used on fruits, vegetables, alfalfa, and livestock.
Oxamyl [Vydate]	2022	Levels lower than detect level	0 - 0	200	200	ppb	No	Runoff / leaching from insecticide used on apples, potatoes, and tomatoes.
Pentachlorophenol	2022	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge from wood preserving factories.
Picloram	2022	Levels lower than detect level	0-0	500	500	ppb	No	Herbicide runoff.
Simazine	2022	Levels lower than detect level	0 - 0	4	4	ppb	No	Herbicide runoff.
Toxaphene	2022	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	2022	Levels lower than detect level	0 - 0	200	200	ppb	No	Discharge from metal degreasing sites and other factories.
1, 1, 2 - Trichloroethane	2022	Levels lower than detect level	0 - 0	3	5	ppb	No	Discharge from industrial chemical factories.
1, 1 - Dichloroethylene	2022	Levels lower than detect level	0-0	7	7	ppb	No	Discharge from industrial chemical factories.
1, 2, 4 - Trichlorobenzene	2022	Levels lower than detect level	0-0	70	70	ppb	No	Discharge from textile-finishing factories.
1, 2 - Dichloroethane	2022	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from industrial chemical factories.
1, 2 - Dichloropropane	2022	Levels lower than detect level	0-0	0	5	ppb	No	Discharge from industrial chemical factories.
Benzene	2022	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories; leaching from gas storage tanks and landfills.
Carbon Tetrachloride	2022	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from chemical plants and other industrial activities.

NTMWD Wylie Water Treatment Plants Water Quality Data for Year 2022 (Cont.)

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorobenzene	2022	Levels lower than detect level	0-0	100	100	ppb	No	Discharge from chemical and agricultural chemical factories.
Dichloromethane	2022	Levels lower than detect level	0-0	0	5	ppb	No	Discharge from pharmaceutical and chemical factories.
Ethylbenzene	2022	Levels lower than detect level	0-0	0	700	ppb	No	Discharge from petroleum refineries.
Styrene	2022	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from rubber and plastic factories; leaching from landfills.
Tetrachloroethylene	2022	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories and dry cleaners.
Toluene	2022	Levels lower than detect level	0 - 0	1	1	ppm	No	Discharge from petroleum factories.
Trichloroethylene	2022	Levels lower than detect level	0-0	0	5	ppb	No	Discharge from metal degreasing sites and other factories.
Vinyl Chloride	2022	Levels lower than detect level	0 - 0	0	2	ppb	No	Leaching from PVC piping; discharge from plastics factories.
Xylenes	2022	Levels lower than detect level	0 - 0	10	10	ppm	No	Discharge from petroleum factories; discharge from chemical factories.
cis - 1, 2 - Dichloroethylene	2022	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge from industrial chemical factories.
o - Dichlorobenzene	2022	Levels lower than detect level	0 - 0	600	600	ppb	No	Discharge from industrial chemical factories.
p - Dichlorobenzene	2022	Levels lower than detect level	0 - 0	75	75	ppb	No	Discharge from industrial chemical factories.
rans - 1, 2 - Dicholoroethylene	2022	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
Highest single measurement	1 NTU	0.4 NTU	No	Soil runoff.
Lowest monthly percentage (%) meeting limit	0.3 NTÚ	99.50%	No	Soil runoff.
NOTE: Turbidity is a measurement of the cloudiness of the water	caused by suspended particles. Me monitor it by	source it is a good indi-	ntac of water	a suplify and the offestive and

NOTE: Turniority 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

Disinfectant Type	Year	Average Level of Quarterly Data	Lowest Result of Single Sample	Highest Result of Single Sample	MRDL	MRDLG	Units	Source of Chemical
Chlorine Residual (Chloramines)	2022	3.24	1.59	4.02	4.00	<4.0	ppm	Disinfectant used to control microbes.
Chlorine Dioxide	2022	0.00	0	0.27	0.80	0.80	ppm	Disinfectant.
Chlorite NOTE: Water providers are requi	2022	0.145	0	0.72	1.00	N/A		Disinfectant.

NOTE: Water providers are required to maintain a minimum chlorine disinfection residual level of 0.5 parts per million (ppm) for systems disinfecting with chloramines and an annual average chlorine disinfection residual level of between 0.5 (ppm) and 4 parts per million (ppm).

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set.

Cryptosporidium and Giardia

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Cryptosporidium	2022	0	0-0	(Oo) Cysts/L	Human and animal fecal waste.
Giardia	2022	0	0-0	(Oo) Cysts/L	Human and animal fecal waste.

NOTE: Levels detected are for source water, not for drinking water. No cryptosporidium or giardia were found in drinking water.

NTMWD Wylie Water Treatment Plants Water Quality Data for Year 2022 (Cont.)

	Lead and Copper											
Lead and Copper	Sampled	Action Level (AL)	90th Percentile	#Sites Over AL	Units	Violation	Likely Source of Contamination					
Lead	6/13/2022	15	0.0018	0	ppb		Corrosion of household plumbing systems; erosion of natural deposits.					
Copper	6/13/2022	1.30	0.31	0	ppm		Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems.					

ADDITIONAL HEALTH INFORMATION FOR LEAD: 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. [Customer] is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Unregulated Contaminants

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Chloroform	2022	37.5	18.1 - 37.5	ppb	By-product of drinking water disinfection.
Bromoform	2022	<1.00	<1.00 - <1.00	ppb	By-product of drinking water disinfection.
Bromodichloromethane	2022	17.7	11.6 - 17.7	ppb	By-product of drinking water disinfection.
Dibromochloromethane	2022	7.8	5.93 - 7.8	ppb	By-product of drinking water disinfection.

NOTE: Bromoform, chloroform, bromodichloromethane, and dibromochloromethane are disinfection by-products. There is no maximum contaminant level for these chemicals at the entry point to distribution.

Secondary and Other Constituents Not Regulated

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Aluminum	2022	Levels lower than detect level	0-0	ppm	Erosion of natural deposits.
Calcium	2022	69.8	32.2 - 69.8	ppm	Abundant naturally occurring element.
Chloride	2022	107	30.0 - 107	ppm	Abundant naturally occurring element; used in water purification by-product of oil field activity.
Iron	2022	Levels lower than detect level	0-0	ppm	Erosion of natural deposits; iron or steel water delivery equipment or facilities.
Magnesium	2022	9.70	9.61 - 9.70	ppm	Abundant naturally occurring element.
Manganese	2022	0.159	0.004 - 0.159	ppm	Abundant naturally occurring element.
Nickel	2022	0.0098	0.0069 - 0.0098	ppm	Erosion of natural deposits.
pН	2022	9.2	7.0 - 9.2	units	Measure of corrosivity of water.
Silver	2022	Levels lower than detect level	0-0	ppm	Erosion of natural deposits.
Sodium	2022	95.4	26.5 - 95.4	ppm	Erosion of natural deposits; by-product of oil field activity.
Sulfate	2022	171	84.2 - 171	ppm	Naturally occurring; common industrial by-product; by-product of oil field activity.
Total Alkalinity as CaCO3	2022	139	69 - 139	ppm	Naturally occurring soluble mineral salts.
Total Dissolved Solids	2022	492	269 - 492	ppm	Total dissolved mineral constituents in water.
Total Hardness as CaCO3	2022	194	90 - 194	ppm	Naturally occurring calcium.
Zinc	and the second s		0-0	ppm	Moderately abundant naturally occurring element used in the metal industry.

Violations Table

Violation Type	Violation Begin	Violation End	Violation Explanation



City of Kaufman-CCR Water Quality Data for Year 2022

		Co	liform Bac	teria		
Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 positive monthly sample	0	0	0	N	Naturally present in the environment.

			Regula	ted Conta	minant	S		
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)	2022	19.7	11.2-20.3	No goal for the total	60	ppb	No	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2022	47.7	20.1-54.3	No goal for the total	80	ppb	No	By-product of drinking water disinfection.
Bromate	2022	4.9	4.9 - 4.9	5	10	ppb	No	By-product of drinking water ozonation.
			he Highest Level Detected becau e annually for compliance testing					
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Antimony	2022	Levels lower than detect level	0-0	6	6	ppb	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; and test addition.
Arsenic	2022	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	2022	0.061	0.060 - 0.061	2	2	ppm	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Beryllium	2022	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	2022	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 an paints.
Chromlum	2022	Levels lower than detect level	0-0	100	100	ppb	No	Discharge from steel and pulp mills; erosion of natural deposit
Cyanide	2022	2022	Levels lower than detect level	0 - 0	200	ppb	No	Discharge from steel/metal factories; Discharge from plastics and fertilizer factories.
Fluoride	2022	0.688	0.278 - 0.688	4	4	ppm	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Mercury	2022	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)	2022	0.439	0.158 - 0.439	10	10	ppm	No	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.
Selenium	2022	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	2022	Levels lower than detect level	0-0	0.5	2	ppb	No	Discharge from electronics, glass, and leaching from ore- processing sites; drug factories.
			a health risk for infants of less t ime because of rainfall or agricul					ing water can cause blue ould ask advice from your health
Radiosctive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2022	4.7	4.7 - 4.7	0	50	pCi/L	No	Decay of natural and man-made deposits.
Green aloba avaludina	Annual Contract of the Party of	Lougle lower than	The second secon	_	_	The same of the same of	T	I

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2022	4.7	4.7 - 4.7	0	50	pCi/L	No	Decay of natural and man-made deposits.
Gross alpha excluding radon and uranium	2022	Levels lower than detect level	0-0	0	15	pCi/L	No	Erosion of natural deposits.
Radium	2022	Levels lower than detect level	0-0	0	5	pCi/L	No	Erosion of natural deposits.



City of Kaufman -CCR Water Quality Data for Year 2022 (Cont.)

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)	2022	Levels lower than detect level	0-0	50	50	ppb	No	Residue of banned herbicide.
2, 4 - D	2022	Levels lower than detect level	0-0	70	70	ppb	No	Runoff from herbicide used on row crops.
Alachior	2022	Levels lower than detect level	0-0	0	2	ppb	No	Runoff from herbicide used on row crops.
Aldicarb	2022	Levels lower than detect level	0-0	1	3	ppb	No	Runoff from agricultural pesticide.
Aldicarb Sulfone	2022	Levels lower than detect level	0-0	1	2	ppb	No	Runoff from agricultural pesticide.
Aldicarb Sulfoxide	2022	Levels lower than detect level	0-0	1	4	ppb	No	Runoff from agricultural pesticide.
Atrazine	2022	0.12	0.10 - 0.12	3	3	ppb	No	Runoff from herbicide used on row crops,
Benzo (a) pyrene	2022	Levels lower than detect level	0-0	0	200	ppt	No	Leaching from linings of water storage tanks and distribution lines.
Carbofuran	2022	Levels lower than detect level	0-0	40	40	ppb	No	Leaching of soil fumigant used on rice and alfalfa.
Chlordane	2022	Levels lower than detect level	0-0	0	2	ppb	No	Residue of banned termiticide.
Dalapon	2022	Levels lower than detect level	0-0	200	200	ppb	No	Runoff from herbicide used on rights of way.
Di (2-ethylhexyl) adipate	2022	Levels lower than detect level	0-0	400	400	ppb	No	Discharge from chemical factories.
Di (2-ethylhexyl) phthalate	2022	Levels lower than detect level	0-0	0	6	ppb	No	Discharge from rubber and chemical factories.
Dibromochloropropane (DBCP)	2022	Levels lower than detect level	0 - 0	0	200	ppt	No	Runoff / leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards.
Dinoseb	2022	Levels lower than detect level	0-0	7	7	ppb	No	Runoff from herbicide used on soybeans and vegetables.
Endrin	2022	Levels lower than detect level	0-0	2	2	ppb	No	Residue of banned insecticide.
Ethylene dibromide	2022	Levels lower than detect level	0-0	0	50	ppt	No	Discharge from petroleium refineries.
Heptachlor	2022	Levels lower than detect level	0-0	0	400	ppt	No	Residue of banned termiticide.
Heptachlor epoxide	2022	Levels lower than detect level	0-0	0	200	ppt	No	Breakdown of heptachlor.
Hexachlorobenzene	2022	Levels lower than detect level	0-0	0	1	ppb	No	Discharge from metal refineries and agricultural chemical factories.
Hexachlorocyclopentadiene	2022	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from chemical factories.
Lindane	2022	Levels lower than detect level	0-0	200	200	ppt	No	Runoff / leaching from insecticide used on cattle, lumber, and gardens.
Methoxychlor	2022	Levels lower than detect level	0-0	40	40	ppb	No	Runoff / leaching from insecticide used on fruits, vegetables, alfalfa, and livestock.
Oxamyl [Vydate]	2022	Levels lower than detect level	0-0	200	200	ppb	No	Runoff / leaching from insecticide used on apples, potatoes, and tomatoes.
Pentachlorophenol	2022	Levels lower than detect level	0-0	0	1	ppb	No	Discharge from wood preserving factories.
Picloram	2022	Levels lower than detect level	0-0	500	500	ppb	No	Herbicide runoff.
Simazine	2022	Levels lower than detect level	0-0	4	4	ppb	No	Herbicide runoff.
Toxaphene	2022	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	Hignest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
1, 1, 1 - Trichloroethane	2022	Levels lower than detect level	0-0	200	200	ppb	No	Discharge from metal degreasing sites and other factories.
1, 1, 2 - Trichloroethane	2022	Levels lower than detect level	0-0	3	5	ppb	No	Discharge from industrial chemical factories.
1, 1 - Dichloroethylene	2022	Levels lower than detect level	0-0	7	7	ppb	No	Discharge from industrial chemical factories.
1, 2, 4 - Trichlorobenzene	2022	Levels lower than detect level	0-0	70	70	ppb	No	Discharge from textile-finishing factories.
1, 2 - Dichloroethane	2022	Levels lower than detect level	0-0	0	5	ppb	No	Discharge from industrial chemical factories.
1, 2 - Dichloropropane	2022	Levels lower than detect level	0-0	0	5	ppb	No	Discharge from industrial chemical factories.
Benzene	2022	Levels lower than detect level	0-0	0	5	ppb	No	Discharge from factories; leaching from gas storage tanks and landfills.
Carbon Tetrachloride	2022	Levels lower than detect level	0-0	0	5	ppb	No	Discharge from chemical plants and other industrial activities.



City of Kaufman-CCR Water Quality Data for Year 2022 (Cont.)

Volatile Organic Contaminants	Collection Date	Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorobenzene	2022	Levels lower than detect level	0-0	100	100	ppb	No	Discharge from chemical and agricultural chemical factories.
Dichloromethane	2022	Levels lower than detect level	0-0	0	5	ppb	No	Discharge from pharmaceutical and chemical factories.
Ethylbenzene	2022	Levels lower than detect level	0-0	0	700	ppb	No	Discharge from petroleum refineries.
Styrene	2022	Levels lower than detect level	0-0	100	100	ppb	No	Discharge from rubber and plastic factories; leaching from landfills.
Tetrachloroethylene	2022	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories and dry cleaners.
Toluene	2022	Levels lower than detect level	0 - 0	1	1	ppm	No	Discharge from petroleum factories.
Trichloroethylene	2022	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from metal degreasing sites and other factories.
Vinyl Chloride	2022	Levels lower than detect level	0 - 0	0	2	ppb	No	Leaching from PVC piping; discharge from plastics factories.
Xylenes	2022	Levels lower than detect level	0 - 0	10	10	ppm	No	Discharge from petroleum factories; discharge from chemical factories.
cis - 1, 2 - Dichloroethylene	2022	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge from industrial chemical factories.
o - Dichlorobenzene	2022	Levels lower than detect level	0 - 0	600	600	ppb	No	Discharge from industrial chemical factories.
p - Dichlorobenzene	2022	Levels lower than detect level	0 - 0	75	75	ppb	No	Discharge from industrial chemical factories.
ans - 1, 2 - Dicholoroethylene	2022	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from industrial chemical factories.

	Limit (Treatment Technique)	Level Detected	Violation		Likely Source of Contamination
Highest single measurement	1 NTU	0.4 NTU	No	Soil runoff.	
Lowest monthly percentage (%) meeting limit	0.3 NTU	99.50%	No	Soil runoff.	

of our filtration.

Disinfectant Type	Year	Average Level of Quarterly Data	Lowest Result of Single Sample	Highest Result of Single Sample	MRDL	MRDLG	Units	Source of Chemical
Chlorine Residual (Chloramines)	2022	2.21	.5	3.7	4.00	<4.0	ppm	Disinfectant used to control microbes.
Chlorine Dioxide	2022	0.00	0	0.27	0.80	0.80	ppm	Disinfectant.
Chlorite	2022	0.145	0	0.72	1.00	N/A		Disinfectant.

NOTE: Water providers are required to maintain a minimum chlorine disinfection residual level of 0.5 parts per million (ppm) for systems disinfecting with chloramines and an annual average chlorine disinfection residual level of between 0.5 (ppm) and 4 parts per million (ppm).

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set.

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Cryptosporidium	2022	0	0-0	(Oo) Cysts/L	Human and animal fecal waste.
Giardia	2022	0	0-0		Human and animal fecal waste.

NOTE: Levels detected are for source water, not for drinking water. No cryptosporidium or glardia were found in drinking water.



City of Kaufman-CCR Water Quality Data for Year 2022 (Cont.)

			Le	ad and Copper			
Lead and Copper	Sampled Sampled	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Lead	2022	15	0	0	ppb		Corrosion of household plumbing systems; erosion of natural deposits.
Copper	2022	1.30	0.346	0	ppm	N	Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems.

ADDITIONAL HEALTH INFORMATION FOR LEAD: 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. [City of Kaufman] is responsible for providing high quality drinking water, but 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

Unregulated Contaminants

	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Proposition of the Party of the	11.6	10.4-28.00	dad	By-product of drinking water disinfection.
And the last of th	1.49	<.100-1.66	THE RESIDENCE OF THE PARTY OF T	By-product of drinking water disinfection.
2022	12.3	5.99-16.00	THE RESIDENCE OF THE PARTY OF T	By-product of drinking water disinfection.
2022	8.01	3.34-8.78	The Land Control of the Local Division in th	By-product of drinking water disinfection.
		Collection Date Detected 2022 11.6 2022 1,49 2022 12.3	Collection Date Detected Range of Levels Detected 2022 11.6 10.4-28.00 2022 1.49 <.100-1.66	Collection Date Detacted Range of Levels Detacted Units 2022 11.8 10.4-28.00 ppb 2022 1.49 <.100-1.66

NOTE: Bromoform, chloroform, bromodichloromethane, and dibromochloromethane are disinfection by-products. There is no maximum contaminant level for these chemicals at the entry point to distribution.

Secondary and Other Constituents Not Regulated

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Aluminum	2022	Levels lower than detect level	0-0	ppm	Erosion of natural deposits.
Calcium	2022	69.8	32.2 - 69.8	ppm	Abundant naturally occurring element.
Chloride	2022	107	30.0 - 107	ppm	Abundant naturally occurring element; used in water purification by-product of oil field activity.
Iron	2022	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits; iron or steel water delivery equipment or facilities.
Magnesium	2022	9.70	9.61 - 9.70	ppm	Abundant naturally occurring element.
Manganese	2022	0.159	0.004 - 0.159	ppm	Abundant naturally occurring element.
Nickel	2022	0.0098	0.0069 - 0.0098	ppm	Erosion of natural deposits.
PH	2022	9.2	7.0 - 9.2	units	Measure of corrosivity of water.
Silver	2022	Levels lower than detect level	0-0	ppm	Erosion of natural deposits.
Sodium	2022	95.4	26.5 - 95.4	ppm	Erosion of natural deposits; by-product of oil field activity.
Sulfate	2022	171	84.2 - 171	ppm	Naturally occurring; common industrial by-product; by-product o oil field activity.
Total Alkalinity as CaCO3	2022	139	69 - 139	ppm	Naturally occurring soluble mineral salts.
Total Dissolved Solids	2022	492	269 - 492	ppm	Total dissolved mineral constituents in water.
Total Hardness as CaCO3	2022	194	90 - 194	ppm	Naturally occurring calcium.
Zinc	2022	Levels lower than detect level	0 - 0	ppm	Moderately abundant naturally occurring element used in the metal industry.

Violations Table

Violation Type	Violation Begin	Violation End	Violation Explanation