LAWRENCE WATER SUPPLY CORPORATION 2023 DRINKING WATER QUALITY REPORT

(CONSUMER CONFIDENCE REPORT FOR PWS 1290018)

TO OUR MEMBERS

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. The data contained in this report is for the period of January 1 to December 31, 2023. Lawrence WSC is Purchased Surface Water from the City of Terrell. For more information regarding this report, contact Janine Burnett, Office Manager at 972-563-7422.

SOURCES OF DRINKING WATER

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

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 byproducts 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.

CRYPTOSPORIDIUM

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

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

SOURCE WATER ASSESSMENT

The TCEQ has completed a Source Water Assessment for all drinking water systems that own their sources. The report 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 system(s) from which we purchase our water received the assessment report. Lawrence WSC is Purchased Surface Water from the City of Terrell 1290006. For more information on source water assessments and protection efforts at our system, contact 972-563-7422.

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

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: http://dww2.tceq.texas.gov/DWW/

PUBLIC PARTICIPATION OPPORTUNITIES

The public is welcomed to attend the Lawrence Water Supply Corporation Board Meeting held at 5632 CR 237A, Terrell, Texas 75160. Please check the website www.lawrencewsc.com for meeting dates, times, and agendas.

DEFINITIONS

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

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

Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples. **Maximum Contaminant Level or MCL:** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. **Maximum Contaminant Level Goal or MCLG:** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

MFL: million fibers per liter (a measure of asbestos)

na: not applicable.

NTU: nephelometric turbidity units (a measure of turbidity)

pCi/L: picocuries per liter (a measure of radioactivity)

ppb: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

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

ppq: parts per quadrillion, or picograms per liter (pg/L)

2021 WATER QUALITY TEST RESULTS

LEAD AN	D COPPER							
Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90 th Percentile	# Sites Over AL	Units	Violation (Y/N)	Likely Source of Contamination
Copper	09/29/21	1.3	1.3	.348	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

REGULATED CO	REGULATED CONTAMINANTS										
Disinfectants and Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation (Y/N)	Likely Source of Contamination			
Haloacetic Acids (HAA5)	2023	23	15 – 31.2	No goal for the total	60	ppb	N	By-product of drinking water disinfection.			
Total Trihalomethanes (TTHM)	2023	38	25.3- 47.5	No goal for the total	80	ppb	N	By-product of drinking water disinfection.			

The value in the Highest Level or Averaged Detected column is the highest average of all HAA5 and TTHM sample results collected at a location over a year.

INORGANIC (CONTAMIN	ANTS						
Contaminant	Collection Date	Highest Level Detecte d	Range of Levels Detected	MCLG	MCL	Unit s	Violation (Y/N)	Likely Source of Contamination
Nitrate [measured as Nitrogen]	2023	0.388	0.388 - 0.388	10	10	pp m	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite (measured as Nitrogen)	08/12/21	0.274	0.274- 0.274	1	1	pp m	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

CHLORINE	RESID	UAL										
Disinfectant	Year	Average	Minimum	Maximum	MRDL	MRDLG	Unit of	Violation	Likely	Source	9	of
		Level	Level	Level			Measure	(Y/N)	Contam	ination		
Chloramines	2023	3.09	1.1	3.7	4.0	4.0	Mg/L	N		additive		to
									control	microbes.		

VIOLATIONS: Disinfectant Level Quarterly Operating Report (DLQOR)

Public water systems are required to properly disinfect water before distribution, maintain acceptable disinfection residuals within the distribution system, monitor the disinfectant residual at various locations throughout the distribution system, and report the results to the TCEQ on a quarterly basis. Reference TCEQ requirements in Title 30, Texas Administrative Code 30 (30 TAC), Section 290, Subsection F.

Violation Type	Violation Begin	Violation End	Violation Explanation
DLQOR	04/01/23	06/30/23	We failed to test our drinking water for the contaminant and period indicated, and cannot be sure of the water quality for the period.
DLQOR	07/01/23	, ,	We failed to test our drinking water for the contaminant and period indicated, and cannot be sure of the water quality for the period.

NTMWD Wylie Water Treatment Plants Water Quality Data for Year 2023

Coliform Bacteria

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Ma	aximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coll Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
	0	1 positive monthly sample	1.00	0	0	NO	Naturally present in the environment.

NOTE: 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, potentially harmful bacteria may be present.

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Regulated Contaminants

Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Total Haloacetic Acids (HAA5)	2023	0.0219	0.021 - 0.0219	No goal for the total	60	ppb	NO	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	0.478	0.045- 0.478	No goal for the total	80	ppb	NO	By-product of drinking water disinfection.
Bromate	2023	Levels lower than detect level	0 - 0	5	10	ppb	No	By-product of drinking water ozonation.

NOTE: Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future. TOEO only requires one cannot be sufficient to the future of the future of

ampling should occur in the future. TCEQ only requires one sample annually for compliance testing. For Bromate, compliance is based on the running annual average

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Antimony	2023	Levels lower than detect level	0 - 0	6	6	ppb	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; and test addition.
Arsenic	2023	Levels lower than detect level	0 - 0	0	10	ppb	No	Erosion of natural deposits; runoff from orchards; runoff fro glass and electronics production wastes.
Barium	2023	0.048	0.041 - 0.048	2	2	ppm	No	Discharge of drilling wastes; discharge from metal refinerie erosion of natural deposits.
Beryllium	2023	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 industrie
Cadmium	2023	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 batterie and paints.
Chromium	2023	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from steel and pulp mills; erosion of natural deposits.
Cyanide	2023	199	28 - 199	0 - 0	200	ppb	No	Discharge from steel/metal factories; Discharge from plastics and fertilizer factories.
Fluoride	2023	0.968	0.537 - 0.968	4	4	ppm	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Mercury	2023	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)	2023	0.790	0.067 - 0.790	10	10	ppm	No	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.
Selenium	2023	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	2023	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 drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

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.

NTMWD Wylie Water Treatment Plants Water Quality Data for Year 2023 (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	2023	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	2023	0.2	0.1 - 0.2	3	3	ppb	No	Runoff from herbicide used on row crops.
Benzo (a) pyrene	2023	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	2023	Levels lower than detect level	0 - 0	400	400	ppb	No	Discharge from chemical factories.
Di (2-ethylhexyl) phthalate	2023	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	2023	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	2023	Levels lower than detect level	0 - 0	0	400	ppt	No	Residue of banned termiticide.
Heptachlor epoxide	2023	Levels lower than detect level	0 - 0	0	200	ppt	No	Breakdown of heptachlor.
Hexachlorobenzene	2023	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge from metal refineries and agricultural chemical factories.
Hexachlorocyclopentadien e	2022	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from chemical factories.
Lindane	2023	Levels lower than detect level	0 - 0	200	200	ppt	No	Runoff / leaching from insecticide used on cattle, lumber, and gardens.
Methoxychlor	2023	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	2023	0.12	0.06 - 0.12	4	4	ppb	No	Herbicide runoff.
Toxaphene	2023	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	2023	Levels lower than detect level	0 - 0	200	200	ppb	No	Discharge from metal degreasing sites and other factories.
1, 1, 2 - Trichloroethane	2023	Levels lower than detect level	0 - 0	3	5	ppb	No	Discharge from industrial chemical factories.
1, 1 - Dichloroethylene	2023	Levels lower than detect level	0 - 0	7	7	ppb	No	Discharge from industrial chemical factories.
1, 2, 4 - Trichlorobenzene	2023	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge from textile-finishing factories.
1, 2 - Dichloroethane	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from industrial chemical factories.
1, 2 - Dichloropropane	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from industrial chemical factories.
Benzene	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories; leaching from gas storage tanks and landfills.
Carbon Tetrachloride	2023	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 2023 (Cont.)

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorobenzene	2023	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from chemical and agricultural chemical factories
Dichloromethane	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from pharmaceutical and chemical factories.
Ethylbenzene	2023	Levels lower than detect level	0 - 0	0	700	ppb	No	Discharge from petroleum refineries.
Styrene	2023	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from rubber and plastic factories; leaching from landfills.
Tetrachloroethylene	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories and dry cleaners.
Toluene	2023	Levels lower than detect level	0 - 0	1	1	ppm	No	Discharge from petroleum factories.
Trichloroethylene	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from metal degreasing sites and other factories.
Vinyl Chloride	2023	Levels lower than detect level	0 - 0	0	2	ppb	No	Leaching from PVC piping; discharge from plastics factories
Xylenes	2023	Levels lower than detect level	0 - 0	10	10	ppm	No	Discharge from petroleum factories; discharge from chemical factories.
cis - 1, 2 - Dichloroethylene	2023	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge from industrial chemical factories.
o - Dichlorobenzene	2023	Levels lower than detect level	0 - 0	600	600	ppb	No	Discharge from industrial chemical factories.
p - Dichlorobenzene	2023	Levels lower than detect level	0 - 0	75	75	ppb	No	Discharge from industrial chemical factories.
trans - 1, 2 - Dicholoroethylene	2023	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	0.73	No	Soil runoff.						
Lowest monthly percentage (%) meeting limit	0.3 NTU	98.0%	No	Soil runoff.						
NOTE: Turbidity is a management of the cloudiness of the water	NOTE: Turbidity is a maggingment of the claudiness 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)	2023	3.27	1.30	4.30	4.00	<4.0	ppm	Disinfectant used to control microbes.
Chlorine Dioxide	2023	0.01	0	0.59	0.80	0.80	ppm	Disinfectant.
Chlorite	2023	0.16	0	0.88	1.00	N/A	ppm	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 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	2023	0	0 - 0	(Oo) Cysts/L	Human and animal fecal waste. Naturally present in the environment.
Giardia	2023	0.18	0.09 - 0.18	(Oo) Cysts/L	Human and animal fecal waste. Naturally present in the environment.

NTMWD Wylie Water Treatment Plants Water Quality Data for Year 2023 (Cont.)

Lead and Copper

Lead and Copper	Date 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 natura deposits.
Copper	6/13/2022	1.30	0.31	0	ppm		Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems.

LEAD AND COPPER RULE: The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and Copper enter drinking water mainly from corrosion of plumbing materials containing lead and copper.

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 trap for 30 seconds to 2 minimize before using water for drinking or cooking. If you consider the 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	2023	41.2	11.7 - 41.2	ppb	By-product of drinking water disinfection.
Bromoform	2023	1.83	1.04 - 1.83	ppb	By-product of drinking water disinfection.
Bromodichloromethane	2023	18.7	7.85 - 18.7	ppb	By-product of drinking water disinfection.
Dibromochloromethane	2023	8.12	4.1 - 8.12	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. These contaminants are included in the Disinfection By-Products TTHM compliance data.

Secondary and Other Constituents Not Regulated

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Aluminum	Aluminum 2023 Levels le		0 - 0	ppm	Erosion of natural deposits.
Calcium	2023	69.8	26.5 - 69.8	ppm	Abundant naturally occurring element.
Chloride	2023	107	30 - 107	ppm	Abundant naturally occurring element; used in water purification; by-product of oil field activity.
Iron	2023	0.516	0.061 - 0.516	ppm	Erosion of natural deposits; iron or steel water delivery equipment or facilities.
Magnesium	2023	9.77	4.90 - 9.77	ppm	Abundant naturally occurring element.
Manganese	2023	0.158	0.0068 - 0.158	ppm	Abundant naturally occurring element.
Nickel	2023	0.0048	0.0047 - 0.0048	ppm	Erosion of natural deposits.
рН	2023	9.17	6.39 - 9.17	units	Measure of corrosivity of water.
Silver	2023	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits.
Sodium	2023	95.4	26.5 - 95.4	ppm	Erosion of natural deposits; by-product of oil field activity.
Sulfate	2023	171	76.8 - 171	ppm	Naturally occurring; common industrial by-product; by- product of oil field activity.
Total Alkalinity as CaCO3	2023	139	51 - 139	ppm	Naturally occurring soluble mineral salts.
Total Dissolved Solids	2023	492	263 - 492	ppm	Total dissolved mineral constituents in water.
Total Hardness as CaCO3	2023	312	82 - 312	ppm	Naturally occurring calcium.
Zinc	2023	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
۰	Control of the Contro			

NITRATE MONITORING, ROUTINE MAJOR	Jan-23	Mar-23	The North Texas MWD Wylie WTP water system PWS ID TX0430044 has violated the monitoring and reporting requirements set by Texas Commission on Environmental Quality (TCEQ) in Chapter 30, Section 290< Subchapter F. Public water systems are required to collect and submit chemical samples to the TCEQ on a regular basis. We failed to monitor and/or report the following constituents: Nitrate This/These violation(s) occurred in the monitoring period(s): First Quarter 01/01/2023 - 3/31/2023 Results of regular monitoring are an indicator of whether or not your drinking water is safe from chemical contamination. We did not complete all monitoring and/or reporting for chemical constituents, and therefore TCEQ cannot be sure of the safety of your drinking water during that time. We are taking the following actions to address the issue: The sample was taken during the required sampling period and results are within compliance criteria. The violation was due to a delay in receiving lab results from a third-party lab. Once the results were released to TCEQ the violation was resolved. Please share this information with all people who drink this water, especially those who may not have received this notice directly (i.e., people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail. If you have questions concerning this matter you may contact NTMWD Water System Manger - Treatment Mr. Gabriel Bowden at (972) 608-7009 Posted/Delivered on: 3-28-2024
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NTMWD Tawakoni Water Treatment Plants Water Quality Data for Year 2023

Coliform Bacteria											
Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination					
0	1 positive monthly sample	1.00	0	0	NO	Naturally present in the environment.					

0		monthly sample	1.00	0		0		Naturally present in the environment.	
IOTE: Reported monthly test otentially harmful bacteria ma		l coliform bacteria. Coli	forms are bacteria that are	e naturally prese	nt in the e	nvironment	and are used	as an indicator that other,	
otentially harmar bactoria me	y do prosoni.		Regula	ated Contar	ninant	s			
Disinfection By- Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Total Haloacetic Acids (HAA5)	2023	0.0219	0.021 -	No goal for the total	60	ppb	NO	By-product of drinking water disinfection.	
Total Trihalomethanes (TTHM)	2023	0.478	0.045 - 0.478	No goal for the total	80	ppb	NO	By-product of drinking water disinfection.	
Bromate	2023	Levels lower than detect level	0 - 0	5	10	ppb	No	By-product of drinking water ozonation.	
OTE: Not all sample results ampling should occur in the f	may have been	used for calculating th	e Highest Level Detected	because some resting. For Brom	esults ma	y be part of	an evaluation ased on the run	to determine where compliance ning annual average.	
norganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Antimony	2023	Levels lower than detect level	0 - 0	6	6	ppb	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; and test addition.	
Arsenic	2023	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	2023	0.063	0.063 - 0.063	2	2	ppm	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.	
Beryllium	2023	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	2023	Levels lower than detect level	0 - 0	5	5	ppb	No	Corrosion of galvanized pipes; erosion of natural depos discharge from metal refineries; runoff from waste batteries and paints.	
Chromium	2023	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from steel and pulp mills; erosion of natural deposits.	
Cyanide	2023	Levels lower than detect level	0 - 0	200	200	ppb	No	Discharge from steel/metal factories; Discharge from plastics and fertilizer factories.	
Fluoride	2023	0.664	0.664 - 0.664	4	4	ppm	No	Erosion of natural deposits; water additive which promo strong teeth; discharge from fertilizer and aluminum factories.	
Mercury	2023	Levels lower than detect level	0 - 0	2	2	ppb	No	Erosion of natural deposits; discharge from refineries a factories; runoff from landfills; runoff from cropland.	
Nitrate (measured as Nitrogen)	2023	0.379	0.379 - 0.379	10	10	ppm	No	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.	
Selenium	2023	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from petroleum and metal refineries; erosion natural deposits; discharge from mines.	
Thallium	2023	Levels lower than detect level	0 - 0	0.5	2	ppb	No	Discharge from electronics, glass, and leaching from or processing sites; drug factories.	
litrate Advisory: Nitrate in dr paby syndrome. Nitrate levels pare provider.	inking water at may rise quick	levels above 10 ppm is ly for short periods of ti	a health risk for infants of me because of rainfall or a	f less than six mo agricultural activi	onths of a	ge. High nit are caring fo	rate levels in dr or an infant you	rinking water can cause blue should 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	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.	

NTMWD Tawakoni Water Treatment Plants Water Quality Data for Year 2023 (Cont.)

2.4.5 - TP (Silvex) 2021 Levels lower than obtact level Levels lower than obtact level level content level Levels lower than obtact level level levels lower than obtact level level level levels lower than obtact level leve	Source of Contamination	Likely Source	Violation	Units	MCL	MCLG	Range of Levels Detected	Highest Level	Collection Date	Synthetic organic contaminants including pesticides and herbicides
Levels lower than 0 - 0 70 70 70 70 70 70	herbicide.	Residue of banned herbicide			-			Levels lower than		
Alachlor 2021 Lavels lower than detect level Aldicarb Sufforde 2021 Lavels lower than 2021 Levels lower than 2022 Levels lower than 2022 Levels lower than 2023	ide used on row crops.	Runoff from herbicide used on row crops.		ppb	70	70	0 - 0	Levels lower than	2021	2. 4 - D
Aldicarb Sulfone Arazine 2021 Levels lower than detect level Arazine Carbofuran 2021 Levels lower than detect level Arazine Carbofuran 2021 Levels lower than detect level Arazine Carbofuran 2021 Levels lower than detect level Aldicarb Sulfonide Carbofuran 2021 Levels lower than detect level Levels lower than detect level Levels lower than detect level Di (2-ethylhexyl) adipate 2021 Levels lower than detect level Dibronochioropropane (BCP) Endrin 2021 Levels lower than detect level Levels lower than detect level Dibronochioropropane Carbofuran 2021 Levels lower than detect level Dibronochioropropane Carbofuran Carbofuran 2021 Levels lower than detect level Dibronochioropropane Carbofuran Carbofuran 2021 Levels lower than detect level Dibronochioropropane Carbofuran Carbofuran Carbofuran 2021 Levels lower than detect level Dibronochi	ide used on row crops.	Runoff from herbicide used	No	ppb	2	0	0 - 0	Levels lower than		
Aldicarb Sulfone 2021 Levels lower than detect level 2021 Levels lower than 2021 Levels lower	Itural pesticide	Runoff from agricultural pesi	No	ppb	3	1	0-0	Levels lower than	40.000	000-24 000
Aldicarb Sulfoxide Aldicarb Sulfoxide Altrazine Altrazine 2021 Levels lower than detect level Carbofuran 2021 Carbofuran 2021 Levels lower than detect level Carbofuran 2021 Carbof	iltural pesticide.	Runoff from agricultural pesi	No		2	1		Levels lower than		
Atrazine 2021	di a Masse									
Benzo (a) pyrene 2021 Levels lower than detect level 2022 Levels l			300							
Garbofuran 2021 Levels lower than detect level 0 - 0 0 20 ppb No Leaching of soil furnigant used on rice and detect level 1 Levels lower than detect level 1 1 Levels lower than detect level 2 1 Levels lower than detect level 2 1 Levels lower than detect level 3 1 Levels lower than detect level 2 2 1 Levels lower than detect level 3 2 2 1 Levels lower than detect level 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2							PERMIT NOTES	2000		
Chiordane 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 ppb No Runoff from herbicide used on rights of war detect level 10 control of the properties of t		distribution lines.						detect level	2021	Benzo (a) pyrene
Dalapon 2021 Levels lower than detect level 0 - 0 200 200 ppb No Runoff from herbicide used on rights of was detect level 10 - 0 400 400 ppb No Discharge from chemical factories. Di (2-ethylhexyl) adipate 2021 Levels lower than detect level 10 - 0 0 6 ppb No Discharge from herbicide used on rights of was detect level 10 - 0 0 6 ppb No Discharge from herbicide used on rights of was detect level 10 - 0 0 6 ppb No Discharge from herbicide used on rights of was detect level 10 - 0 0 6 ppb No Discharge from herbicide used on solitoring from soil furnigant used in control of ppb No Runoff / leaching from soil furnigant used in control ppb No Runoff / leaching from soil furnigant used in control ppb No Runoff / leaching from soil furnigant used in control ppb No Runoff / leaching from soil furnigant used in control ppb No Runoff / leaching from soil furnigant used in control ppb No Runoff from herbicide used on soybeans and detect level detect level Levels lower than detect level 10 - 0 10 10 ppb No Residue of banned insecticide. Ethylene dibromide 2021 Levels lower than detect level 10 - 0 10 10 ppt No Residue of banned insecticide. Heptachlor epoxide 2021 Levels lower than detect level 10 - 0 10 10 ppt No Residue of banned insecticide. Hexachlorobenzene 2021 Levels lower than detect level 10 - 0 10 10 ppt No Residue of banned insecticide. Hexachlorobenzene 2021 Levels lower than detect level 10 - 0 10 ppt No Residue of banned insecticide used on detect level 10 ppb No Discharge from metal refineries and agricidation expension of the ppb No Discharge from metal refineries and agricidation expension of the ppb No Discharge from metal refineries and agricidation expension of the ppb No Discharge from chemical factories. Methoxychlor 2021 Levels lower than detect level 0 - 0 200 ppb No Runoff / leaching from insecticide used on vigetables, affaifa, and livestock. Pictoram 2021 Levels lower than detect level 0 - 0 500 500 ppb No Herbicide runoff.	migant used on rice and alfalfa.	Leaching of soil furnigant us	No	ppb	40	40	0 - 0	detect level	2021	Carbofuran
Dialapon 2021 detect level 0-0 200 ppb No Discharge from chemical factories. Di (2-ethylhexyl) adipate 2021 Levels lower than detect level 0-0 0 6 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 7 7 ppb No Runoff / leaching from soil furnigant used oction, pineapples, and orchards. 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 50 ppt No Discharge from petroleium refineries. Heptachlor epoxide 2021 Levels lower than detect level 0-0 0 50 ppt No Breakdown of heptachlor. Hexachlorobenzene 2021 Levels lower than detect level 0-0 0 200 ppt No Breakdown of heptachlor. Hexachlorocyclopentadien 2021 Levels lower than detect level 0-0 50 50 ppb No Discharge from metal refineries and agricitations. Lindane 2021 Levels lower than detect level 0-0 50 50 ppb No Discharge from chemical factories. Methoxychlor 2021 Levels lower than detect level 0-0 50 50 ppb No Discharge from insecticide used or and gardens. Methoxychlor 2021 Levels lower than detect level 0-0 200 ppb No Runoff / leaching from insecticide used or and gardens. Methoxychlor 2021 Levels lower than detect level 0-0 200 ppb No Runoff / leaching from insecticide used or potatoes, and tomatoes. Pentachlorophenol 2021 Levels lower than detect level 0-0 50 50 ppb No Discharge from wood preserving factories feet level 10-0 500 500 ppb No Discharge from wood preserving factories 10-10 ppb No Discharge fr	I termiticide.	Residue of banned termiticion	No	ppb	2	0	0 - 0	detect level	2021	Chlordane
Di (2-ethylhexyl) adipate 2021 detect level	cide used on rights of way.	Runoff from herbicide used	No	ppb	200	200	0 - 0		2021	Dalapon
Di (2-ethylhexyl) phthalate 2021 detect level detect level 0 - 0 0 0 200 ppt No Discharge from rubber and chemical ractor (DBCP) 2021 Levels lower than detect level 0 - 0 0 200 ppt No Runoff / leaching from soil furnigant used in cotton, pineapples, and orchards. Dinoseb 2021 Levels lower than detect level 0 - 0 7 7 ppb No Runoff from herbicide used on soybeans at 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 10 - 0 0 50 ppt No Discharge from petroleium refineries. Heptachlor 2021 Levels lower than detect level 10 - 0 0 400 ppt No Residue of banned termiticide. Heptachlor 2021 Levels lower than detect level 10 - 0 0 400 ppt No Residue of banned termiticide. Heptachlor 2021 Levels lower than detect level 10 - 0 0 1 ppt No Breakdown of heptachlor. Hexachlorobenzene 2021 Levels lower than detect level 10 - 0 0 1 ppt No Discharge from metal refineries and agricultural detect level 10 - 0 0 1 ppt No Discharge from chemical factories. Hexachlorocyclopentadien 2021 Levels lower than detect level 10 - 0 0 1 ppt No Discharge from chemical factories. Lindane 2021 Levels lower than detect level 10 - 0 200 ppt No Runoff / leaching from insecticide used or and gardens. Methoxychlor 2021 Levels lower than detect level 10 - 0 40 40 ppb No Runoff / leaching from insecticide used or and gardens. Methoxychlor 2021 Levels lower than detect level 10 - 0 200 200 ppb No Runoff / leaching from insecticide used or polatoes, and tomatoes. Pentachlorophenol 2021 Levels lower than detect level 10 - 0 500 500 ppb No Herbicide runoff.	emical factories.	Discharge from chemical fa	No	ppb	400	400	0 - 0		2021	Di (2-ethylhexyl) adipate
Dinoseb 2021 Levels lower than detect level 0 - 0 7 7 ppb No Runoff from herbicide used on soybeans a	bber and chemical factories.	Discharge from rubber and	No	ppb	6	0	0 - 0		2021	Di (2-ethylhexyl) phthalate
Dinoseb 2021 Levels lower than detect level Levels lower than detect level Levels lower than detect level 2021 Levels lower than detect le			No	ppt	200	0	0 - 0		2021	
Endrin 2021 Levels lower than detect level	cide used on soybeans and vegetables	No	ppb	7	7	0 - 0		2021		
Ethylene dibromide 2021 Levels lower than detect level	d insecticide.	No	ppb	2	2	0 - 0	Levels lower than	2021	Endrin	
Heptachlor 2021 Levels lower than detect level Heptachlor epoxide 2021 Levels lower than detect level Hexachlorobenzene 2021 Levels lower than detect level Hexachlorocyclopentadien e 2021 Levels lower than detect level Hexachlorocyclopentadien e 2021 Levels lower than detect level Hexachlorocyclopentadien e 2021 Levels lower than detect level Lindane 2021 Levels lower than detect level Methoxychlor 2021 Levels lower than detect level Methoxychlor 2021 Levels lower than detect level Oxamyl [Vydate] 2021 Levels lower than detect level Pentachlorophenol 2021 Levels lower than detect level Pentachlorophenol 2021 Levels lower than detect level Discharge from metal refineries and agrical factories. Discharge from chemical factories. Poph No Discharge from chemical factories. No Runoff / leaching from insecticide used or vegetables, affalfa, and livestock. Runoff / leaching from insecticide used or vegetables, affalfa, and livestock. Pentachlorophenol 2021 Levels lower than detect level D-0 200 200 ppb No Runoff / leaching from insecticide used or vegetables, affalfa, and livestock. Picloram 2021 Levels lower than detect level D-0 500 500 ppb No Discharge from wood preserving factories Simarine 2021 Levels lower than detect level Levels lower than detect level D-0 500 500 ppb No Herbicide runoff.	etroleium refineries.	No	ppt	50	0	0 - 0	Levels lower than	2021	Ethylene dibromide	
Heptachlor epoxide 2021 Levels lower than detect level 2021 Levels lower than detect level 30 - 0 0 1 ppb No Breakdown of heptachlor. Hexachlorobenzene 2021 Levels lower than detect level 30 - 0 0 1 ppb No Discharge from metal refineries and agricultural factories. Hexachlorocyclopentadien 2021 Levels lower than detect level 30 - 0 50 ppb No Discharge from chemical factories. Lindane 2021 Levels lower than detect level 30 - 0 200 ppt No Runoff / leaching from insecticide used or and gardens. Methoxychlor 2021 Levels lower than detect level 30 - 0 40 40 ppb No Runoff / leaching from insecticide used or vegetables, alfalfa, and livestock. Oxamyl [Vydate] 2021 Levels lower than detect level 30 - 0 200 ppb No Runoff / leaching from insecticide used or potatoes, and tomatoes. Pentachlorophenol 2021 Levels lower than detect level 30 - 0 30 ppb No Discharge from wood preserving factories 30 ppb No Discharge from wood preserving factories 30 ppb No Herbicide runoff.	d termiticide.	Residue of banned termitici	No	ppt	400	0	0 - 0	Levels lower than	2021	Heptachlor
Hexachlorobenzene 2021 Levels lower than detect level 2021 Levels lower than 2021 Levels lower than detect level 2021 Levels lower than 2021	etachlor.	No	ppt	200	0	0-0	Levels lower than	2021	Heptachlor epoxide	
Hexachlorocyclopentadien e 2021 Levels lower than detect level 2021 Levels lower than 2021 Levels lower	etal refineries and agricultural chemic	No	ppb	1	0	0 - 0	Levels lower than	2021	Hexachlorobenzene	
Lindane 2021 Levels lower than detect level 2021 Levels lower than 2021 Levels lower than detect level 2021 Levels lower than detect level 2021 Levels lower than 2021 Levels lower than detect level 2021 Levels lower than 2021 Lev	nemical factories.		No	ppb	50	50	0 - 0	Levels lower than	2021	
Methoxychlor 2021 Levels lower than detect level	from insecticide used on cattle, lumbe		No		200	200		Levels lower than		2000 100
Oxamyl [Vydate] 2021 Levels lower than detect level 200 200 ppb No Runoff / leaching from insecticide used or potatoes, and tomatoes. Pentachlorophenol 2021 Levels lower than detect level 200 0 1 ppb No Discharge from wood preserving factories Picloram 2021 Levels lower than detect level 200 500 500 ppb No Herbicide runoff.						10000	WX 200		AND THE PARTY OF T	Transaction Co. Co.
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 ppb No Herbicide runoff. Simpaine 2021 Levels lower than 0 - 0 4 4 ppb No Herbicide runoff.	from insecticide used on apples,	Runoff / leaching from inse	970							
Pictoram 2021 Levels lower than detect level 0 - 0 500 500 ppb No Herbicide runoff.		potatoes, and tomatoes.			STATE OF THE PARTY					
Pictoram 2021 detect level 0 - 0 500 500 ppb No Herbicide runoff.	Discharge from wood preserving factories.		3000	7.434.62			775 730	detect level		Pentachlorophenol
I Simazine I 2021 I ()-0 I 4 I 4 I DDD I NO Interplicide runoiti	Herbicide runoff.		No	ppb			0 - 0	detect level	2021	Picloram
D. William to the control of the con			No	ppb	4	4	0 - 0	detect level	2021	Simazine
Toxaphene 2021 Levels lower than detect level 0 - 0 0 3 ppb No Runoff / leaching from insecticide used or cattle.	from insecticide used on cotton and	No	ppb	3	0		detect level			
Volatile Organic Collection Highest Level Range of Levels Contaminants Date Detected Detected MCLG MCL Units Violation Likely Source of Contamina	y Source of Contamination	Likely Source	Violation	Units	MCL	MCLG			100000000000000000000000000000000000000	
1, 1, 1 - Trichloroethane 2023 Levels lower than detect level 0 - 0 200 200 ppb No Discharge from metal degreasing sites an	Discharge from metal degreasing sites and other factoring		No	ppb	200	200	0 - 0		2023	1, 1, 1 - Trichloroethane
1, 1, 2 - Trichloroethane 2023 Levels lower than detect level 0 - 0 3 5 ppb No Discharge from industrial chemical factoric	dustrial chemical factories.	Discharge from industrial c	No	ppb	5	3	0 - 0		2023	1, 1, 2 - Trichloroethane
1, 1 - Dichloroethylene 2023 Levels lower than detect level 0 - 0 7 7 ppb No Discharge from industrial chemical factori	idustrial chemical factories.	Discharge from industrial c	No	ppb	7	7	0 - 0	Levels lower than	2023	1, 1 - Dichloroethylene
1, 2, 4 - Trichlorobenzene 2023 Levels lower than detect level detect level	extile-finishing factories.	Discharge from textile-finis	No	ppb	70	70	0 - 0	Levels lower than	2023	1, 2, 4 - Trichlorobenzene
1, 2 - Dichloroethane 2023 Levels lower than detect level 0 - 0 0 5 ppb No Discharge from industrial chemical factor	idustrial chemical factories.	Discharge from industrial c	No	ppb	5	0	0 - 0	Levels lower than	2023	1, 2 - Dichloroethane
1.2 - Dichloropropage 2023 Levels lower than 0 - 0 5 ppb No Discharge from industrial chemical factor	ndustrial chemical factories.	Discharge from industrial c	No	ppb	5	0	0 - 0	Levels lower than	2023	1, 2 - Dichloropropane
Renzene 2023 Levels lower than 0 - 0 0 5 ppb No Discharge from factories; leaching from g	actories; leaching from gas storage tar		No		5	0	W. W.	Levels lower than		7400
Carbon Tetrachloride 2023 detect level 0 - 0 0 5 ppb No Discharge from chemical plants and othe activities.	hemical plants and other industrial	Discharge from chemical p	10000					Levels lower than		P. DANIEL MAN DE LA CONTRACTOR DE LA CON

NTMWD Tawakoni Water Treatment Plants Water Quality Data for Year 2023 (Cont.)

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorobenzene	2023	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from chemical and agricultural chemical factories.
Dichloromethane	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from pharmaceutical and chemical factories.
Ethylbenzene	2023	Levels lower than detect level	0 - 0	0	700	ppb	No	Discharge from petroleum refineries.
Styrene	2023	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from rubber and plastic factories; leaching from landfills.
Tetrachloroethylene	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories and dry cleaners.
Toluene	2023	Levels lower than detect level	0 - 0	1	1	ppm	No	Discharge from petroleum factories.
Trichloroethylene	2023	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from metal degreasing sites and other factorie
Vinyl Chloride	2023	Levels lower than detect level	0 - 0	0	2	ppb	No	Leaching from PVC piping; discharge from plastics factories.
Xylenes	2023	Levels lower than detect level	0 - 0	10	10	ppm	No	Discharge from petroleum factories; discharge from chemical factories.
cis - 1, 2 - Dichloroethylene	2023	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge from industrial chemical factories.
o - Dichlorobenzene	2023	Levels lower than detect level	0 - 0	600	600	ppb	No	Discharge from industrial chemical factories.
p - Dichlorobenzene	2023	Levels lower than detect level	0 - 0	75	75	ppb	No	Discharge from industrial chemical factories.
trans - 1, 2 - Dicholoroethylene	2023	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	0.26	No	Soil runoff.
Lowest monthly percentage (%) meeting limit	0.3 NTU	100%	No	Soil runoff.
NOTE: Turbidity is a measurement of the cloudiness of the water	r caused by suspended particles. We monitor	it because it is a goo	d indicator of w	vater quality and the effectiveness

of our filtration.

Maximum Residual Disinfectant Level

Disinfectant Type	Year	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Units	Source of Chemical
Chlorine Residual (Chloramines)	2023	3.27	1.30	4.30	4.00	<4.0	ppm	Disinfectant used to control microbes.
Chlorine Dioxide	2023	0.01	0	0.26	0.80	0.80	ppm	Disinfectant.
Chlorite	2023	0.31	0	0.88	1.00	N/A	ppm	Disinfectant.

NOTE: Water providers are required to maintain a minimum chlorine disinfe average chlorine disinfection residual level of between 0.5 ppm and 4 ppm.

(16) L

Total Organic Carbon

	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination	
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	2023	Levels lower than detect level	0 - 0	(Oo) Cysts/L	Human and animal fecal waste. Naturally present in the environment.
Giardia	2023	Levels lower than detect level	0 - 0	(Oo) Cysts/L	Human and animal fecal waste. Naturally present in the environment.

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 2023 (Cont.)

Lead and Copper

Lead and Copper	Date Sampled	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Lead	6/13/2022	15	0.0018	0	ppb		Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems
Copper	6/13/2022	1.3	0.31	0	ppm		Corrosion of household plumbing systems; erosion of natural deposits.

LEAD AND COPPER RULE: The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity.

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

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	2023	41.2	11.7 - 41.2	ppb	By-product of drinking water disinfection.
Bromoform	2023	1.83	1.04 - 1.83	ppb	By-product of drinking water disinfection.
Bromodichloromethane	2023	18.7	7.85 - 18.7	ppb	By-product of drinking water disinfection.
Dibromochloromethane	2023	8.12	4.1 - 6.12	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. These contaminants are included in the Disinfection By-Products TTHM compliance data.

Secondary and Other Constituents Not Regulated

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Aluminum	2023	0.025	0.025 - 0.025	ppm	Erosion of natural deposits.
Calcium 2023		45.2	33.8 - 45.2	ppm	Abundant naturally occurring element.
Chloride	2023	21.9	14.7 - 21.9	ppm	Abundant naturally occurring element; used in water purification; by-product of oil field activity.
Iron	2023	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits; iron or steel water delivery equipment or facilities.
Magnesium	2023	2.89	2.89 - 2.89	ppm	Abundant naturally occurring element.
Manganese	2023	0.0041	0.0041 - 0.0041	ppm	Abundant naturally occurring element.
Nickel	2023	0.0031	0.0031 - 0.0031	ppm	Erosion of natural deposits.
рН	2023	8.3	7.4 - 8.3	units	Measure of corrosivity of water.
Silver	2023	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits.
Sodium	2023	20.6	16.2 - 20.6	ppm	Erosion of natural deposits; by-product of oil field activity.
Sulfate	2023	75.0	47.5 - 75.0	ppm	Naturally occurring; common industrial by-product; by- product of oil field activity.
Total Alkalinity as CaCO3	2023	79	40 - 79	ppm	Naturally occurring soluble mineral salts.
Total Dissolved Solids 2023 212		212	136 - 212	ppm	Total dissolved mineral constituents in water.
otal Hardness as CaCO3	2023	128	79 - 128	ppm	Naturally occurring calcium.
Zinc	2023	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
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