



Why you received this report

This report is produced to provide information about College Mound Special Utility District's (CMSUD) water system including source water, levels of detected contaminants, and our compliance with all drinking water standards. **(College Mound SUD is rated a Superior Public Water System. This is the highest rating from Texas Commission of Environmental Quality, which means CMSUD meets and exceeds all State and Federal requirements for water quality.)**

Where Your Water Comes From

CMSUD purchased pretreated water from three water sources. Two sources are from NTMWD: Lake Tawakoni, located throughout Hunt, Rains, and Van Zandt Counties; and Lake Lavon located in Collin County. The Third source is the City of Terrell who also purchases their water from NTMWD, Lake Lavon and Tawakoni as mentioned above. TCEQ has completed a Source Water Assessment for all drinking water systems that own their sources. The report described 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. For more information on source water assessments and protection efforts at our system, contact **Shirley Thompson at 972 563-1355**.

All Drinking Water May Contain Contaminants

There is information reported by some that seems to indicate water quality does not consistently meet federal and state allowable limits. College Mound SUD is consistently well below required limits.

If you have any specific questions related to water quality and contaminants, you may contact CMSUD at 972 563-1355. Etse reporte incluye informacio'n importante sobre el agua para tomar. Para asistencia en espanol, avor de llarma al telephono 972-563-1355.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases radioactive material, and can pick up substances resulting from the presence of animal or human activity. Drinking water, including bottled water, may reasonably be expected to contain at least small amount of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (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 from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure tap water is safe to drink, EPA prescribes regulations that 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 cause for health concerns. For more information on taste, odor, or color of drinking water, please contact the office of CMSUD.

Customers With Special Health Concerns

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; those who are undergoing organ transplants; those who are undergoing treatment with steroids; and other 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 physicians or health care provider. 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 water for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you can request your water be 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 <http://www.epa.gov/safewater/lead>

Public Participation

The public is welcome to attend CMSUD Board of Director Meetings held the fourth Tuesday of each month, January – November.

Definitions and Abbreviations

The following tables contain scientific terms and measures, some of which may require explanation.

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

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

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

Level 1 Assessment: A Level 1 Assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 Assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. Coli MCL violation has

occurred and/or why total coliform bacteria has been found in our water system on multiple occasions.

Maximum Contaminant Levels or MCL: The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best 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: Millions of fibers per liter (a measure of asbestos)

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

na: Not applicable

NTU: Nephelometric Turbidity Units (a measure of turbidity)

pCi/L: Picocuries Per Liter (a measure of radioactivity)

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

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

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

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

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water

Testing Results: Violations:

College Mound Special Utility District had no violations during the 2023 reporting period.

2024 Violation: Revised Total Coliform Rule Monitoring, Routine, Minor (RTCR)

Our system failed to collect every required coliform sample during the month of April, 2024. Although this incident was not an emergency, as our customer, you have a right to know what happened and what we did to correct this situation.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During May 2024 we did not complete all testing for coliform bacteria and therefore cannot be sure of the quality of your drinking water.

What should I do? There is nothing you need to do at this time. You may continue to drink the water. If a situation arises where the water is no longer safe to drink, we are required to notify you within 24 hours.

What is being done? *The District collected the required number of samples in June 2024 and is no longer in violation.* For more information, please contact CMSUD at 972-563-1355.

Our connections recently increased to an amount that requires more sampling/testing/reporting and although the samples were collected and tested without issue, the number of samples collected/tested was incorrect.

Lead and Copper

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# of sites over AL	Units	Violation	Likely Source of contamination
Copper	2023	1.3	1.3	0.685	0	ppm	No	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2023	0	15	1.97	0	ppb	No	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

Regulated Contaminants

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2023	22.0	15.3 - 29	No goal for total	60	ppb	No	By-product of drinking water disinfection.
(TTHM) Total Trihalomethanes	2023	43	27.2 – 60.9	No goal for total	80	ppb	No	By-product of drinking water disinfection.

Inorganic Contaminants

Nitrate (measures as Nitrogen)	2023	1	0.141 – 0.801	10	10	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; erosion of natural deposits.
Nitrite (measured as Nitrogen)	2023	0.0378	0.0378-0.0378	1	1	ppm	No	Runoff from fertilizer use; leaching from septic tanks, sewage; Erosion of natural deposits.

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

Disinfectant Residual	Year	Average Level	Range of levels detected	MRDL	MRDG	Unit of measure	Violation	Source in Drinking Water
Chloramines Total	2023	1.62	.5-3.90	4	<4	mg/l	No	Water additive used to control microbes.

Unregulated Contaminant	Collection Date	Range of Levels Detected (µg/L)	Average Level (µg/L)	Health-Based Reference (µg/L)	Health Information Summary
Perfluorobutanesulfonic Acid (PFBS)	2023	<MRL - .0041	<.003	10	This data is part of UCMR5 results in relation to minimum reporting levels and available non-regulatory health-based reference concentrations.
Perfluorohexane Sulfonate (PFHxA)	2023	<MRL - .005	.0038	10	
Perfluoropentanoic Acid (PFPeA)	2023	<MRL - .0065	<.003	10	
Per- and Polyfluoroalkyl Substances (PFBA)	2023	<MRL - <.00557	<.000696	10	

Additionally, the information in red on the following pages from NTMWD are the testing results of College Mound SUD. The following CCRs from NTMWD are from two of our water sources and are required to be attached to our CCR. Since the City of Terrell purchases their water from NTMWD it is not required to provide the City of Terrell's CCR; however, it can be found at the Reception Desk in Terrell City Hall.

NTMWD Wylie 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	0.00	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.

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	22	15.3-29	No goal for the total	60	ppb	No	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	43	27.2-69.9	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. 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 from glass and electronics production wastes.
Barium	2023	0.048	0.041 - 0.048	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 deposits; 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	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 petroleum 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
Hexachlorocyclopentadiene	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 - Dichloroethylene	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 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)	2023	1.82	0.50	3.90	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.

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 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	2023	15	1.97	0	ppb	No	Corrosion of household plumbing systems; erosion of natural deposits.
Copper	2023	1.30	0.665	0	ppm	No	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. College Mound SUD 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	22.8	10.6-22.8	ppb	By-product of drinking water disinfection.
Bromoform	2023	3.15	1.83-3.15	ppb	By-product of drinking water disinfection.
Bromodichloromethane	2023	21.7	9.44-21.7	ppb	By-product of drinking water disinfection.
Dibromochloromethane	2023	13.8	4.85-13.8	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. 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	Levels lower than detect level	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.
pH	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 CaCO ₃	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 CaCO ₃	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
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<p>NITRATE MONITORING, ROUTINE MAJOR</p>	<p>Jan-23</p>	<p>Mar-23</p>	<p>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.</p> <p>We failed to monitor and/or report the following constituents: Nitrate</p> <p>This/These violation(s) occurred in the monitoring period(s): First Quarter 01/01/2023 - 3/31/2023</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>If you have questions concerning this matter you may contact NTMWD Water System Manager - Treatment Mr. Gabriel Bowden at (972) 608-7009</p> <p>Posted/Delivered on: 3-28-2024</p>
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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	0.00	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.

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	22.00	15.3 - 29	No goal for the total	60	ppb	No	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	43.00	27.2 - 60.9	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. 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 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 deposits; 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 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	0.379	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 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	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.)

Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
2, 4, 5 - TP (Silvex)	2021	Levels lower than detect level	0 - 0	50	50	ppb	No	Residue of banned herbicide
2, 4 - D	2021	Levels lower than detect level	0 - 0	70	70	ppb	No	Runoff from herbicide used on row crops
Alachlor	2021	Levels lower than detect level	0 - 0	0	2	ppb	No	Runoff from herbicide used on row crops
Aldicarb	2021	Levels lower than detect level	0 - 0	1	3	ppb	No	Runoff from agricultural pesticide
Aldicarb Sulfone	2021	Levels lower than detect level	0 - 0	1	2	ppb	No	Runoff from agricultural pesticide
Aldicarb Sulfoxide	2021	Levels lower than detect level	0 - 0	1	4	ppb	No	Runoff from agricultural pesticide
Atrazine	2021	0.1	0.1 - 0.1	3	3	ppb	No	Runoff from herbicide used on row crops
Benzo (a) pyrene	2021	Levels lower than detect level	0 - 0	0	200	ppt	No	Leaching from linings of water storage tanks and distribution lines
Carbofuran	2021	Levels lower than detect level	0 - 0	40	40	ppb	No	Leaching of soil fumigant used on rice and alfalfa
Chlordane	2021	Levels lower than detect level	0 - 0	0	2	ppb	No	Residue of banned termiticide
Dalapon	2021	Levels lower than detect level	0 - 0	200	200	ppb	No	Runoff from herbicide used on rights of way
Di (2-ethylhexyl) adipate	2021	Levels lower than detect level	0 - 0	400	400	ppb	No	Discharge from chemical factories
Di (2-ethylhexyl) phthalate	2021	Levels lower than detect level	0 - 0	0	6	ppb	No	Discharge from rubber and chemical factories
Dibromochloropropane (DBCP)	2021	Levels lower than detect level	0 - 0	0	200	ppt	No	Runoff / leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb	2021	Levels lower than detect level	0 - 0	7	7	ppb	No	Runoff from herbicide used on soybeans and vegetables
Endrin	2021	Levels lower than detect level	0 - 0	2	2	ppb	No	Residue of banned insecticide
Ethylene dibromide	2021	Levels lower than detect level	0 - 0	0	50	ppt	No	Discharge from petroleum refineries
Heptachlor	2021	Levels lower than detect level	0 - 0	0	400	ppt	No	Residue of banned termiticide
Heptachlor epoxide	2021	Levels lower than detect level	0 - 0	0	200	ppt	No	Breakdown of heptachlor
Hexachlorobenzene	2021	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclopentadiene	2021	Levels lower than detect level	0 - 0	50	50	ppb	No	Discharge from chemical factories
Lindane	2021	Levels lower than detect level	0 - 0	200	200	ppt	No	Runoff / leaching from insecticide used on cattle, lumber, and gardens
Methoxychlor	2021	Levels lower than detect level	0 - 0	40	40	ppb	No	Runoff / leaching from insecticide used on fruits, vegetables, alfalfa, and livestock
Oxamyl [Vydate]	2021	Levels lower than detect level	0 - 0	200	200	ppb	No	Runoff / leaching from insecticide used on apples, potatoes, and tomatoes
Pentachlorophenol	2021	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge from wood preserving factories
Picloram	2021	Levels lower than detect level	0 - 0	500	500	ppb	No	Herbicide runoff
Simazine	2021	Levels lower than detect level	0 - 0	4	4	ppb	No	Herbicide runoff
Toxaphene	2021	Levels lower than detect level	0 - 0	0	3	ppb	No	Runoff / leaching from insecticide used on cotton and cattle
Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
1, 1, 1 - Trichloroethane	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 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 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 - Dichloroethylene	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 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	Minimum Level	Maximum Level	MRDL	MRDLG	Units	Source of Chemical
Chlorine Residual (Chloramines)	2023	1.62	0.50	3.90	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 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

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	2023	15	1.97	0	ppb	N	Erosion of natural deposits, leaching from wood preservatives, corrosion of household plumbing systems
Copper	2023	1.3	0.665	0	ppm	N	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	22.6	10.6 - 22.6	ppb	By-product of drinking water disinfection
Bromoform	2023	3.15	1.93 - 3.15	ppb	By-product of drinking water disinfection
Bromodichloromethane	2023	21.7	9.44 - 21.7	ppb	By-product of drinking water disinfection
Dibromochloromethane	2023	13.6	4.65 - 13.6	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
pH	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	15.2 - 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 CaCO ₃	2023	79	40 - 79	ppm	Naturally occurring soluble mineral salts
Total Dissolved Solids	2023	212	136 - 212	ppm	Total dissolved mineral constituents in water
Total Hardness as CaCO ₃	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

CMSUD Violation Type	Violation Begin	Violation End	Violation Explanation
Monitoring, Routine, Minor	May-24	Jun-24	Revised Total Coliform Rule - District failed to pull the required number of samples during May 2024. Violation was corrected and resolved in June 2024. No further action is required.

Fifth Unregulated Contaminant Rule - UCMR5	CMSUD Collection Date	Highest Level Detected	Minimum Level	Maximum Level	Units	Likely Source of Contamination
Perfluorobutanesulfonic Acid (PFBS)	2023	0.041	0	0.003	ng/l	PFAS and PFOS are a group of synthetic chemicals used in a wide range of consumer products and industrial application including, non-stick cookware, water-repellent clothing, stain resistant fabrics and carpets, cosmetics, firefighting foams, electroplating, and products that resist grease, water, and oil. PFAS are found in the blood of people and animals and in water, air, fish, and soil at locations across the United States and world.
Perfluorohexane Sulfonate (PFHxA)	2023	0.056	0	0.003	ng/l	(same as above)
Perfluoropentanoic Acid (PFPeA)	2023	0.065	0	0.003	ng/l	(same as above)