

# NTMWD Wylie Water Treatment Plants

## Monthly Water Quality Data for March 2024

### 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	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)	Mar-24	45.8	32.0 - 45.8	No goal for the total	60	ppb	No	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	Mar-24	94.4	69.1 - 94.4	No goal for the total	80	ppb	No	By-product of drinking water disinfection.

NOTE: Monthly independent lab testing results for disinfection by-products (DBPs) in NTMWD transmission system. Sampling locations represent a cross-section of average water ages in the NTMWD transmission system. As a wholesale water provider with less than 500 direct customers, TCEQ only requires one sample annually for Disinfection By Products (DBPs) compliance testing. In addition to TCEQ required testing on the NTMWD regional system, over 300 samples of water initially treated by NTMWD are tested for DBPs each year within the city/local water systems to comply with TCEQ regulations.

Bromate	Mar-24	Levels lower than detect level	0 - 0	5	10	ppb	No	By-product of drinking water ozonation.
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NOTE: For Bromate, compliance is based on the running annual average.

Inorganic Contaminants	Collection Date	Raw (Source Water)	Treated (Finished Water)	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	Mar-24	1.37 - 2.43	0.527 - 0.844	0	10	ppb	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.
Barium	Mar-24	0.0518 - 0.148	0.0453 - 0.0672	2	2	ppm	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Cadmium	Mar-24	Levels lower than detect level	Levels lower than detect level	5	5	ppb	No	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints.
Chromium	Mar-24	Levels lower than detect level	Levels lower than detect level	100	100	ppb	No	Discharge from steel and pulp mills; erosion of natural deposits.
Fluoride	Mar-24	0.268 - 0.379	0.337 - 0.895	4	4	ppm	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Mercury	Mar-24	Levels lower than detect level	Levels lower than detect level	2	2	ppb	No	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland.
Nitrate (measured as Nitrogen)	Mar-24	0.0360 - 1.17	0.561 - 1.18	10	10	ppm	No	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.
Selenium	Mar-24	1.02 - 2.77	1.02 - 1.02	50	50	ppb	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.

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.

### Turbidity

	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest single measurement	1 NTU	0.30	No	Soil runoff.
Lowest monthly percentage (%) meeting limit	0.3 NTU	100.0%	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	Range of Levels Detected	MRDL	MRDL G	Units	Violation	Source of Chemical
Chlorine Residual (Chloramines)	Mar-24	2.97	1.21 - 3.65	4.00	<4.0	ppm	No	Disinfectant used to control microbes.
Chlorine Dioxide	Mar-24	0.03	0.00 - 0.55	0.80	0.80	ppm	No	Disinfectant.
Chlorite	Mar-24	0.08	0.00 - 0.36	1.00	N/A	ppm	No	Disinfectant.

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

### Total Organic Carbon

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

### Cryptosporidium and Giardia

Contaminants	Collection Date	Raw (Source Water)	Treated (Finished Water)	Units	Likely Source of Contamination
Cryptosporidium	Mar-24	0	0	(Oo) Cysts/L	Human and animal fecal waste. Naturally present in the environment.
Giardia	Mar-24	0	0	(Oo) Cysts/L	Human and animal fecal waste. Naturally present in the environment.

# NTMWD Wylie Water Treatment Plants

## Monthly Water Quality Data for March 2024 (Cont.)

### Lead and Copper

Lead and Copper	Collection Date	Raw (Source Water)	Treated (Finished Water)	Action Level	Units	Violation	Likely Source of Contamination
Lead	Mar-24	0.744 - 0.744	Levels lower than detect level	15	ppb	No	Corrosion of household plumbing systems; erosion of natural deposits.
Copper	Mar-24	0.0010 - 0.0222	0.0012 - 0.0058	1.3	ppm	No	Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems.

NOTE: Monthly independent lab testing results for lead and copper at the entry point to the NTMWD transmission system.

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. NTMWD 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>.

### Secondary and Other Constituents Not Regulated

Contaminants	Collection Date	Raw (Source Water)	Treated (Finished Water)	Units	Secondary Standards	Likely Source of Contamination
Calcium	Mar-24	46.9 - 81.6	48.4 - 61.7	ppm	No Standard Established	Abundant naturally occurring element.
Chloride	Mar-24	32.7 - 299	38.8 - 95.3	ppm	300	Abundant naturally occurring element; used in water purification; by-product of oil field activity.
Corrosivity Index	Mar-24	Not Applicable	(-)0.090 - (+)0.36	units	No Standard Established	Values greater than zero are scale forming, whereas, values less than zero are more corrosive.
Iron	Mar-24	0.216 - 0.550	Levels lower than detect level	ppm	0.3	Erosion of natural deposits; iron or steel water delivery equipment or facilities.
Magnesium	Mar-24	5.45 - 34.6	6.02 - 12.3	ppm	No Standard Established	Abundant naturally occurring element.
Manganese	Mar-24	0.0256 - 0.0622	0.0468 - 0.0815	ppm	0.05	Abundant naturally occurring element.
Nickel	Mar-24	0.00316 - 0.00593	0.00622 - 0.00879	ppm	No Standard Established	Erosion of natural deposits.
pH	Mar-24	7.1 - 8.6	7.6 - 8.5	units	>7	Measure of corrosivity of water.
Potassium	Mar-24	5.36 - 6.39	5.50 - 6.10	ppm	No Standard Established	Abundant naturally occurring element.
Silver	Mar-24	Levels lower than detect level	Levels lower than detect level	ppm	0.1	Erosion of natural deposits.
Sodium	Mar-24	32.8 - 200	54.5 - 88.7	ppm	No Standard Established	Erosion of natural deposits; by-product of oil field activity.
Sulfate	Mar-24	49.6 - 250	106 - 165	ppm	300	Naturally occurring; common industrial by-product; by-product of oil field activity.
Total Alkalinity as CaCO3	Mar-24	107 - 153	92.0 - 116	ppm	No Standard Established	Naturally occurring soluble mineral salts.
Total Dissolved Solids	Mar-24	276 - 964	339 - 509	ppm	500 - 1000	Total dissolved mineral constituents in water.
Total Hardness as CaCO3	Mar-24	70.1 - 340	69.9 - 184	ppm	No Standard Established	Naturally occurring calcium.
Zinc	Mar-24	0.0026 - 0.0191	0.0032 - 0.0228	ppm	5	Moderately abundant naturally occurring element used in the metal industry.

### Taste and Odor Compounds

Analytes	Collection Date	Raw (Source Water) Range of Levels Detected	Treated (Finished Water) Range of Levels Detected	Units	Secondary Standards	Likely Source of Contamination
Geosmin	Mar-24	7.4 - 74.0	2.9 - 8.4	ppt	No Standard Established	Compound naturally found in lakes. Causes earthy, dirt-like odor.
2-Methylisoborneol (MIB)	Mar-24	Levels lower than detect level	Levels lower than detect level	ppt	No Standard Established	Compound naturally found in lakes. Causes musty, wet mulch like odor.

Note: Geosmin and 2-Methylisoborneol, produced by cyanobacteria, filamentous bacteria and other organisms, are found in surface water sources and are the most commonly reported taste and odor compounds. They have earthy-musty odors which are difficult to remove by conventional water treatment processes. The human nose is extremely sensitive to these compounds. The threshold for detection for Geosmin is approximately 15 parts per trillion (ng/L) and for MIB is approximately 10 ppt. However, variations in human perception of taste and odor, means that some people may detect Geosmin in concentrations as low as 5 ppt and MIB in concentrations as low as 2 ppt - which is roughly equivalent to a teaspoon of Geosmin into 200 Olympic-sized swimming pools.