

2023 Mansfield Water Quality Report



Where Does our Water Come From?

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 animals or from human activity.

The City of Mansfield purchases surface water from the Tarrant Regional Water District (TRWD). TRWD pumps water primarily from Cedar Creek and Richland Chambers Reservoirs in the east and Lake Benbrook in the west. A Source Water Susceptibility Assessment for your drinking water source(s) was last updated by the Texas Commission on Environmental Quality (TCEQ) in the year 2007. This information describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions.

The information contained in the assessment allows us to focus source water protection strategies. For more information about your source(s) of water please refer to the TCEQ <u>Source</u> <u>Water Assessment & Protection Viewer</u>. Further details about sources and source water assessments are available in the TCEQ <u>Drinking</u> <u>Water Watch</u>.



Health Information for Special Populations

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

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono 817-276-4230.

2023 Water Quality Report

Annual Water Quality Report for the period January 1 to December 31, 2023. 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 TCEQ completed an assessment of your source water and results indicate that our sources have a potentially high susceptibility to contaminants. A high susceptibility means there are activities near the source water and the natural conditions of the aquifer or watershed make it very likely that chemical constituents may come into contact with the source water. It does not mean that there are any health risks present. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detections of these contaminants may be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, contact David Hinshaw, Treatment Plant Manager, 817-728-3674

				11	NORGANIC CON	NTAMINA	NTS	
Year	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Unit of Measure	Violation	Likely Source of Contamination
2023	Cyanide	102	102 - 102	200	200	ppb	No	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
2023	Chromium	<1.00	<1.00-<1.00	100	100	ppb	No	Discharge form steel and pulp mills; Erosion of natural deposits.
2023	Barium	0.057	0.057 - 0.057	2	2	ppm	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2023	Fluoride	0.614	0.614 - 0.614	4	4	ppm	No	Erosion of natural deposits; Water additive which promotes strong teeth; Runoff from fertilizer and aluminum factories.
2023	Nitrate [measured as Nitrogen]	0.533	0.533 - 0.533	10	10	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
2022	Thallium	< 0.001	<0.001-<0.001	0.5	2	ppm	No	Discharge from electronics, glass, and Leaching from ore-processing sites; drug factories.

	SYNTHETIC ORGANIC CONTAMINANTS INCLUDING PESTICIDES & HERBICIDES										
Year	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Unit of Measure	Violation	Likely Source of Contaminant			
2023	Atrazine	<0.1	<0.1-<0.1	3	3	ppb	No	Runoff from herbicide used on row crops.			

					ORGANIC CON	TAMINAN	ITS	
Year	Contaminant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Contaminant
2023	Chloramines	3.62	1.10	4	4	<4	ppm	Water additive used to control microbes.

	DISINFECTION BYPRODUCTS										
Year	Contaminant	Highest Level	Range of Levels	MCLG	MCL	Unit of Measure	Violation	Likely Source of Contamination			
		Detected	Detetted			Wiedsure					
2023	Haloacetic Acids (HAA5)*	21.7	8.30 - 21.7	No goal for this total	60	ppb	No	Byproduct of drinking water disinfection.			
2023	Total Trihalomethanes (TTHM)*	59.2	31.1-59.2	No goal for this total	80	ppb	No	Byproduct of drinking water disinfection.			
2023	Chlorite	0.23	0.08 - 0.23	0.8	1.0	ppm	No	Byproduct of drinking water disinfection.			
*The unit											

				UN	REGULATED C	ONTAMIN	ANTS	
Year	Contaminant	Average	Minimum	Maximum		Unit of Measure	Violation	Likely Source of Contamination
2023	Chloroform*	14.4	8.2	24.4		ppb	No	Byproduct from drinking water disinfection.
2023	Bromoform*	1.36	1	2.09		ppb	No	Byproduct from drinking water disinfection.
2023	Bromodichloromethane*	14.7	11.5	21.9		ppb	No	Byproduct from drinking water disinfection.
2023	Dibromocholoromethane*	9.3	6.69	12.0		ppb	No	Byproduct from drinking water disinfection.
Unregu	ated contaminants are those for	which EPA has not est	ablished drinking wat	er standards. The purp	oose of unregulated co	ontaminant m	onitoring is to	assist EPA in determining the occurrence of unregulated contaminants in drinking water and

whether future regulation is warranted. *Individual coumpound of the Total Trihalomethanes (TTHM)

	LEAD & COPPER (1)										
Year	Contaminant	The 90th Percentile	Number of sites exceeding action level	Action Level (AL)	MCLG	Unit of Measure	Violation	Likely Source of Contamination			
2021	Lead	1.02	0	15	0	ppb	No	Corrosion of household plumbing systems; Erosion of natural deposit.			
2021	Copper	0.147	0	1.3	1.3	ppm	No	Corrosion of household plumbing systems; Erosion of natural deposit; Leaching from wood preservatives.			
To meet	federal compliance rules. Mansf	field samples 30 home	s every three years for	lead and copper. Com	pliance sampling was	last performe	d in 2021. Ma	nsfield achieves corrosion control through pH adjustment.			





Var				52	CONDAIL CON	OTH OLIV	13 (2)					
rear	Contaminant	Average Level	Minimum Level	Maximum Level	Secondary Limit		Unit of Measure	Likely Source of Contamination				
2023	Bicarbonate	99.3	99.3	99.3	NA		ppm	Corrosion of carbonate rocks such as limestone.				
2023	Chloride	34.2	34.2	34.2	300		ppm	Abundant naturally occurring element; Used in water purification.				
2023	Hardness as CaCO ₃	102.0	102.0	102.0	NA		ppm	Naturally occurring calcium and magnesium.				
2023	Н	8.09	7.84	8.38	>7.0		units	Measure of corrosivity of water.				
2023	Sodium	29.2	29.2	29.2	NA		nnm	, Frosion of natural denosits: Byproduct of oil field activity				
2023	Sulfate	29.2	29.2	20.2	200			Naturally accurring: Common industrial hyperoduct Provident of all faild activity.				
2023		36.3	38.3	38.3	300		ppm	Naturally occurring; common industrial byproduct; byproduct of on neig activity.				
2023	Total Alkalinity	99.3	99.3	99.3	NA		ppm	Naturally occurring soluble mineral salts.				
2023	Total Dissolved Solids	226	226	226	1000		ppm	Total dissolved mineral constituents in water.				
					COLIFORM B	ACTERIA (3)					
	Maximum Contaminant Level Goal	Total Coliform Maxium Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positiv Fecal Coliform	ve E. Coli or Samples	Violation	Likely Source of Contamination				
2023	0	5% of monthly samples are positive.	0.0%	0	0		No	Naturally present in the environment.				
		positive		D/								
Vear	Contaminant	Highest Level	Range of Levels	MCLG		Unit of	Violation	Likely Source of Contamination				
2022+	Data (ab at an amittara	Detected	Detected		50	Measure	No					
20231 *EPA co	beta/photon emitters	5.0 f concern for beta part	5.0 - 5.0 ticles.	U	50	pCI/L*	NO	Decay of natural and man-made deposits.				
†Becaus	se Mansfield historically has had l	ow levels of radionucl	ides in its water, TCEC	requires this monito	ring occur only once e	every six years.	The test result	ts shown above are from 2023. The next monitoring will occur in 2029.				
					TURNIN	T)((4)						
Vear		Limit (Treatment	Level Detected		TUKBIDI	Unit of	Violation	Likely Source of Contamination				
2022	Lighest single measurement	Technique)	0.42			Measure	No					
2023	Lowest monthly % meeting	1 NIO	0.43			NTO	NO					
2023	limit	0.3 NTU	100%			NIU	No	Soil runoff.				
Informa	ation Statement: Turbidity is a m	easurement of the clo	udiness of the water c	aused by suspended p	articles. We monitor	it because it is	a good indica	tor of water quality and the effectiveness of our filtration system and disinfectants.				
				Т	OTAL ORGANI	C CARBON	I (5)					
Year	Contaminant	Average Level	Minimum Level	Maximum Level	π*	Violation	Unit of Measure	Likely Source of Contamination				
2023	Removal Ratio	1.36	1.10	1.58	≥1	No	%	Naturally occuring.				
Mansfie *Treatm	eld was in compliance with all mo	onitoring and treatme	nt technique requiren	nents for disinfection l	oy-product precursor	s. A removal ra	tio of≥1 in TC	C calculations is considered passing.				
	I											
	 If present, elevated levels of lead ca water, but we cannot control the variet concerned about lead in your water, you 	in cause serious health pro y of materials used in plum u may wish to have your w	blems, especially for pregn bing components. When y ater tested. Information or	ant women and young chil your water has been sitting n lead in drinking water, tes	dren. Lead in drinking wate for several hours, you can t methods, and steps you	er is primarily from minimize the pot can take to minim	n materials and co ential for lead ex ize exposure is a	omponents associated with service lines and home plumbing. We are responsible for providing high quality drinking posure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are vailable from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.				
	(2) Many constituents (such as calciur health concerns. Therefore, secondary	n, sodium, or iron), which : 's are not required to be re	are often found in drinking ported in this document b	water, can cause taste, col ut they may greatly affect t	or, and odor problems. Th he appearance and taste o	e taste and odor f your water.	constituents are o	called secondary constituents and are regulated by the State of Texas, not EPA. These constituents are not causes for				
	(3) Total coliform bacteria are used as i	(2) Many constituents (such as calcium, sodium, or iron), which are often found in drinking water, can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not EPA. These constituents are not causes for health concerns. Therefore, secondary's are not required to be reported in this document but they may greatly affect the appearance and taste of your water.										
		ndicators of microbial con						tract of warm-blooded animals. While coliforms are not disease producers, they are often found in association with				
	other microbes that are capable of cau of the coliform bacteria group originati indicates whether total coliform or fer-	ndicators of microbial con sing disease. Coliform bact ing in the intestinal tract of al coliform bacteria were fo	eria are hardier than many warm-blooded animals an	disease-causing organisms d are passed into the envir a water samples submitter	; therefore their absence fi onment through feces. The for testing by your water	rom water is a goo e presence of feca supplier last year	d indication that I coliform in drin	tract of warm-blooded animals. While collforms are not disease producers, they are often found in association with the water is bacteriologically safe for human consumption. Fecal collform bacteria, in particular E-Coli, are a portion king water may indicate recent contamination of the drinking water supply with fecal material. The following table				
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Water Contaminants

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 may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

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 septic systems.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and can also come from gas stations, urban storm water runoff and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact 817-728-3674.

Water Loss Statement

Mansfield Water Utilities monitors water loss in an effort to improve operational efficiencies in both the water treatment plant and the water distribution system. During the period of January to December, 2023, Mansfield Water Utilities reported a loss of 420,381,000 gallons of water. This is estimated at 6.47 percent of total water purchased.

Utilities incur real water losses from pipeline leaks, and apparent losses when customer water consumption is incorrectly measured or billed. The winter storm of 2021 is an example of real water loss as we experienced 3x our average water flow during that period. We also experience apparent losses when water meters begin declining with age, and less water consumption is registered than actually consumed.



Water Quality FAQ

What causes taste and odor in my drinking water?

Hot South Texas summer weather results in a rapid algae growth in our surface water reservoirs. As the algae decay, they release taste and odor compounds. The Mansfield Water Treatment Plant replaced the anthracite coal filter media with GAC (Granulated Activated Carbon) in the plant expansion of 1999. As a result, the tastes and odor nuisance was greatly reduced. However, there are times of the year when the algae growths can exceed the GAC's ability to remove the tastes and odors completely. In as much as the problem of taste and odor may be apparent in the water, the water is safe to drink.

Is my water safer with water purification devices?

Water from the City of Mansfield is safe to drink. We recognize it is your personal choice to purchase water purification devices. They have been known to cause problems in the quality of drinking water due to the lack of proper filtration replacement. These devices are not tested or regulated by the state or federal government.

Do we have hard water?

Hard water is defined by the amount of calcium and magnesium present in the water. Hard water has a relatively high level as compared to soft water which has a low level. Actually our water is not classified as hard or soft. It is medium (hard) and normally has a between 90 to 120 mg/l, or in other terms about 5 to 7 grains of hardness.

Why does my water seem cloudy?

Water that is cloudy is often the result of air in the water. To verify the cloudy water is caused by air, fill a clear glass with water from your faucet. Watch the glass closely. If the glass gets clear from the bottom to the top after a few minutes then there is air in the water. While the quality of water is not affected by presence of air, it could be indicative of a problem in the distribution system.

This usually happens when it is very cold outside because the solubility of air in water increases as water pressure increases and/or water temperature decreases. Cold water holds more air than warm water

If you have questions about your water quality or have excessive air in your water, contact the Bud Ervin Water Treatment Plant by calling 817-728-3674 or via email at bewtp@mansfieldtexas.gov.

What is causing the stain on my plumbing fixtures?

Iron and manganese can cause a brownish orange staining on plumbing fixtures. The level of iron and manganese in our raw water is enough to cause staining problems. Since December 2003 Mansfield has been using Chlorine Dioxide to reduce iron and manganese.



Definitions and Abbreviations

MCL – Maximum Contaminant Level

The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

MCLG – Maximum Contaminant Level Goal

The Level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

MFL - Million fibers per liter

A measure of asbestos.

MRDL – Maximum Residual Disinfectant Level

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

MRDLG – Maximum Residual Disinfectant Level Goal

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

N/A – Not Applicable

NTU – Nephelometric Turbidity Units This is used to measure water turbidity (clarity).

AL – Action Level

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

pCi/L - Picocuries Per Liter

This is a measure of radioactivity in water.

ppb – Parts Per Billion

Equivalent to one microgram per liter- or one ounce in 7,350,000 gallons of water.

ppm – Parts Per Million

Equivalent to one milligram per liter- or one ounce in 7,350 gallons of water.

Contact Information:

Water Quality Questions: Contact David Hinshaw, Treatment Plant Manager at 817-728-3674, or email at david.hinshaw@mansfieldtexas.gov

Questions bout your water service or utility bill: Contact Utility Billing Customer Service at 817-276-4230, or email at billing.office@mansfieldtexas.gov

Opportunities for public participation in decisions that may affect the quality of water occur the second and fourth Monday of every month during City Council meetings at 7 p.m. at City Hall, 1200 E. Broad St., Mansfield, TX 76063.