

# Annual Drinking Water Quality Report

# Period of January 1 to December 31, 2020 PSW ID 1290016

This report provides you with important information about your drinking water and the efforts to provide safe drinking water. For more information regarding this report, contact Mindi Letchworth, Administrative Supervisor, at 972-564-3801 or email <u>mindi@highpointsud.com</u>.

# Information about Your Drinking Water

Drinking water sources (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 human activity. Drinking water, including bottled water, may reasonably 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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, can naturally occur or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides may come from various sources such as agriculture, urn stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, are by-products of industrial processes and petroleum production and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants can be naturally occurring or result from oil and gas production and mining activities.

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

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of issues do not necessarily cause health concerns. Please contact the office for more information on the taste, odor, or color of drinking water.

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 lead levels 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 various 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 are available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

# Information about Source Water

High Point WSC purchases Surface Water from the City of Forney and Terrell. North Texas Municipal Water District treats raw water from Lake Lavon and Lake Tawakoni and sells it to Forney and Terrell.

# **Public Participation Opportunities**

The Board of Directors holds a public meeting every 3<sup>rd</sup> Thursday of each month at 16983 Valley View Road, Forney, TX 75126, beginning at 7:00 pm. To learn more about future public meetings, visit our website at <u>www.highpointsud.com</u>.

The TCEQ has completed a Source Water Susceptibility for all drinking water systems that own their sources. The report describes the susceptibility and types of constituents that may contact 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 Mindi Letchworth at 972-564-3801.

## Water Conservation

No landscape and lawn irrigation from 10 am – 6 pm. Prohibit using water in such a manner as to allow runoff or other waste. Limit watering with sprinklers or irrigation systems to no more than two days per week as needed per the following schedule:

-Addresses ending in 0, 2, 4, 6, 8 – Wednesday & Saturday -Addresses ending in 1, 3, 5, 7, 9 – Tuesday & Friday

# En Español

Este reporte incluye información imporante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono 972-564-3801.

### Definitions

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

**Maximum Contaminant Level (MCL)** – The highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**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.

**Maximum Contaminant Level Goal (MCLG)** – The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.

**Maximum residual disinfectant level (MRDL)** – The highest level of disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for the control of microbial contaminants.

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

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)

Water Purchased:	393,870,000
Water Sold:	357,782,116
Water Loss:	36,087,884
Loss Percentage:	9.16%
Accounted for Loss:	4,341,300
Unaccounted for Loss:	8.06%

# NTMWD Wylie Water Treatment Plants Water Quality Data for Year 2020

			Coli	form Bac	teria						
				Fecal Coliform or							
				E. Coli Maximum	Total No.	of Positive					
Maximum Contaminant Level Goal		orm Maximum iinant Level	Highest No. of Positive	Contaminant	E. Coli	or Fecal Samples	Violation	Likely Source of Contamination			
0	1 positive n	nonthly sample	0.00	0		0	No	Naturally present in the environment.			
NOTE: Reported monthly tests for potentially harmful, bacteria may		liform bacteria. Col	iforms are bacteria that are natu	irally present in	the enviror	nment and a	re used as a	in indicator that other,			
Regulated Contaminants											
Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination			
Total Haloacetic Acids (HAA5)	2020	17	8.1 - 20.5	No goal for the total	60	ppb	No	By-product of drinking water disinfection.			
Total Trihalomethanes (TTHM)	2020	39	14.3 - 52.1	No goal for the total	80	ppb	No	By-product of drinking water disinfection.			
Bromate	2020	8.91	8.91 - 8.91	5	10	ppb	No	By-product of drinking water ozonation.			
NOTE: Not all sample results ma sampling should occur in the futu					ts may be p	part of an eva	aluation to d	etermine where compliance			
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination			
Antimony	2020	Levels lower than detect level	0 - 0	6	6	ppb	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; and test addition.			
Arsenic	2020	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	2020	0.061	0.058 - 0.061	2	2	ppm	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.			
Beryllium	2020	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	2020	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	2020	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from steel and pulp mills; erosion of natural deposits.			
Fluoride	2020	0.225	0.218 - 0.225	4	4	ppm	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.			
Mercury	2020	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)	2020	0.827	0.266 - 0.827	10	10	ppm	No	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.			
Selenium	2020	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	2020	Levels lower than	0 - 0	0.5				Discharge from electronics, glass, and leaching from ore-			
		detect level	0 0	0.5	2	ppb	No				
Nitrate Advisory: Nitrate in drinkin baby syndrome. Nitrate levels ma			a health risk for infants of less t	han six months	of age. Hig	gh nitrate lev	els in drinkir	processing sites; drug factories. ng water can cause blue			
Nitrate Advisory: Nitrate in drinkin baby syndrome. Nitrate levels ma care provider.		ls above 10 ppm is	a health risk for infants of less t	han six months	of age. Hig	gh nitrate lev	els in drinkir	processing sites; drug factories. ng water can cause blue			
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	Levels lower than						Discharge from metal refineries and agricultural chemical
2020	detect level	0 - 0	0	1	ppb	No	factories.
2020	detect level	0 - 0	50	50	ppb	No	Discharge from chemical factories.
2020	detect level	0 - 0	200	200	ppt	No	Runoff / leaching from insecticide used on cattle, lumber, and gardens.
2020	Levels lower than detect level	0 - 0	40	40	ppb	No	Runoff / leaching from insecticide used on fruits, vegetables, alfalfa, and livestock.
2019	Levels lower than detect level	0 - 0	200	200	ppb	No	Runoff / leaching from insecticide used on apples, potatoes, and tomatoes.
2019	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge from wood preserving factories.
2019	Levels lower than detect level	0 - 0	4	500	ppb	No	Herbicide runoff.
2020	0.08	0.07 - 0.08	4	4	ppb	No	Herbicide runoff.
2020	Levels lower than detect level	0 - 0	0	3	ppb	No	Runoff / leaching from insecticide used on cotton and cattle.
Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
2020	Levels lower than detect level	0 - 0	200	200	ppb	No	Discharge from metal degreasing sites and other factories.
2020	Levels lower than	0 - 0	3	5	ppb	No	Discharge from industrial chemical factories.
2020	Levels lower than	0 - 0	7	7	ppb	No	Discharge from industrial chemical factories.
2020	Levels lower than	0 - 0	70	70	ppb	No	Discharge from textile-finishing factories.
2020	Levels lower than	0 - 0	0	5	ppb	No	Discharge from industrial chemical factories.
	Levels lower than			-	ppb	No	Discharge from industrial chemical factories.
2020	detect level	0 - 0	0	5	ppp	INU	Discharge nom muustnar chemicar factories.
2020 2020	detect level Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories; leaching from gas storage tanks and landfills.
	Levels lower than		-	-		-	Discharge from factories; leaching from gas storage tanks and
2020	Levels lower than detect level Levels lower than	0 - 0	0	5	ppb	No	Discharge from factories; leaching from gas storage tanks and landfills.
2020 2020	Levels lower than detect level Levels lower than detect level	0 - 0 0 - 0	0	5	ppb ppb	No	Discharge from factories; leaching from gas storage tanks and landfills. Discharge from chemical plants and other industrial activities.
2020 2020 Collection Date	Levels lower than detect level Levels lower than detect level Detected Levels lower than detect level Levels lower than	0 - 0 0 - 0 Range of Levels Detected	0 0 MCLG	5 5 MCL	ppb ppb Units	No No Violation	Discharge from factories; leaching from gas storage tanks and landfills. Discharge from chemical plants and other industrial activities. Likely Source of Contamination
2020 2020 Collection Date 2020	Levels lower than detect level Levels lower than detect level nignest Level Detected Levels lower than detect level Levels lower than Levels lower than	0 - 0 0 - 0 Range of Levels Detected 0 - 0	0 0 MCLG 100	5 5 MCL 100	ppb ppb Units ppb	No No Violation No	Discharge from factories; leaching from gas storage tanks and landfills. Discharge from chemical plants and other industrial activities. Likely Source of Contamination Discharge from chemical and agricultural chemical factories.
2020 2020 Collection Date 2020 2020	Levels lower than detect level Levels lower than detect level Detected Levels lower than detect level Levels lower than	0 - 0 0 - 0 Range of Levels Detected 0 - 0 0 - 0	0 0 MCLG 100 0	5 5 MCL 100 5	ppb ppb Units ppb ppb	No No Violation No No	Discharge from factories; leaching from gas storage tanks and landfills. Discharge from chemical plants and other industrial activities. Likely Source of Contamination Discharge from chemical and agricultural chemical factories. Discharge from pharmaceutical and chemical factories.
2020 2020 Collection Date 2020 2020 2020	Levels lower than detect level Levels lower than detect level ngness Level Detected Levels lower than detect level Levels lower than detect level Levels lower than detect level Levels lower than	0 - 0 0 - 0 Range of Levels Detected 0 - 0 0 - 0 0 - 0 0 - 0	0 0 MCLG 100 0	5 5 MCL 100 5 700	ppb ppb Units ppb ppb ppb	No No Violation No No	Discharge from factories; leaching from gas storage tanks and landfills. Discharge from chemical plants and other industrial activities. Likely Source of Contamination Discharge from chemical and agricultural chemical factories. Discharge from pharmaceutical and chemical factories. Discharge from petroleum refineries. Discharge from rubber and plastic factories; leaching from
2020 2020 Collection Date 2020 2020 2020 2020	Levels lower than detect level Levels lower than detect level Torected Detected Levels lower than detect level Levels lower than	0 - 0 0 - 0 Range of Levels Detected 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0	0 0 MCLG 100 0 0 100	5 5 MCL 100 5 700 100	ppb ppb Units ppb ppb ppb ppb	No No Violation No No No	Discharge from factories; leaching from gas storage tanks and landfills. Discharge from chemical plants and other industrial activities. Likely Source of Contamination Discharge from chemical and agricultural chemical factories. Discharge from pharmaceutical and chemical factories. Discharge from petroleum refineries. Discharge from rubber and plastic factories; leaching from landfills.
2020 2020 Collection Date 2020 2020 2020 2020 2020 2020	Levels lower than detect level Levels lower than detect level Detected Levels lower than detect level Levels lower than	0 - 0 0 - 0 Range of Levels Detected 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0	0 0 MCLG 100 0 0 100 0	5 5 MCL 100 5 700 100 5	ppb ppb Units ppb ppb ppb ppb	No No Violation No No No No	Discharge from factories; leaching from gas storage tanks and landfills. Discharge from chemical plants and other industrial activities. Likely Source of Contamination Discharge from chemical and agricultural chemical factories. Discharge from pharmaceutical and chemical factories. Discharge from petroleum refineries. Discharge from rubber and plastic factories; leaching from landfills. Discharge from factories and dry cleaners.
2020 2020 Collection Date 2020 2020 2020 2020 2020 2020 2020	Levels lower than detect level Levels lower than detect level ngmest Level Detected Levels lower than detect level Levels lower than	0 - 0 0 - 0 Range of Levels Detected 0 - 0 0 - 0	0 0 MCLG 100 0 0 100 0 1	5 5 MCL 100 5 700 100 5 1	ppb ppb Units ppb ppb ppb ppb ppb	No No Violation No No No No No	Discharge from factories; leaching from gas storage tanks and landfills. Discharge from chemical plants and other industrial activities. Likely Source of Contamination Discharge from chemical and agricultural chemical factories. Discharge from pharmaceutical and chemical factories. Discharge from petroleum refineries. Discharge from nubber and plastic factories; leaching from landfills. Discharge from factories and dry cleaners. Discharge from petroleum factories.
2020 2020 Collection Date 2020 2020 2020 2020 2020 2020 2020 20	Levels lower than detect level Levels lower than detect level nignest Level Levels lower than detect level Levels lower than	0 - 0 0 - 0 Range of Levels Detected 0 - 0 0 - 0	0 0 MCLG 100 0 0 100 0 100 0 1 0	5 5 MCL 100 5 700 100 5 1 1 5	ppb ppb Units ppb ppb ppb ppb ppb	No No Violation No No No No No	Discharge from factories; leaching from gas storage tanks and landfills. Discharge from chemical plants and other industrial activities. Likely Source of Contamination Discharge from chemical and agricultural chemical factories. Discharge from pharmaceutical and chemical factories. Discharge from petroleum refineries. Discharge from rubber and plastic factories; leaching from landfills. Discharge from factories and dry cleaners. Discharge from petroleum factories.
2020 2020 Collection Date 2020 2020 2020 2020 2020 2020 2020 20	Levels lower than detect level Levels lower than detect level Detected Levels lower than detect level Levels lower than	0 - 0 0 - 0 Range of Levels Detected 0 - 0 0 - 0	0 0 0 100 0 0 100 0 1 0 0 1 0 0	5 5 MCL 100 5 700 100 5 1 5 2	ppb ppb Units ppb ppb ppb ppb ppb ppb	No No No No No No No No No No	Discharge from factories; leaching from gas storage tanks and landfills. Discharge from chemical plants and other industrial activities. Likely Source of Contamination Discharge from chemical and agricultural chemical factories. Discharge from pharmaceutical and chemical factories. Discharge from petroleum refineries. Discharge from rubber and plastic factories; leaching from landfills. Discharge from factories and dry cleaners. Discharge from petroleum factories. Discharge from metal degreasing sites and other factories. Leaching from PVC piping; discharge from plastics factories.
2020 2020 2020 2020 2020 2020 2020 202	Levels lower than detect level Levels lower than detect level Detected Detected Levels lower than detect level Levels lower than	0 - 0 0 - 0 Range of Levels Detected 0 - 0 0 -	0 0 0 100 0 0 100 0 1 0 1 0 0 10	5 5 MCL 100 5 700 100 5 1 1 5 2 10	ppb ppb Units ppb ppb ppb ppb ppb ppb ppb pp	No No No No No No No No No No No	Discharge from factories; leaching from gas storage tanks and landfills. Discharge from chemical plants and other industrial activities. Likely Source of Contamination Discharge from chemical and agricultural chemical factories. Discharge from pharmaceutical and chemical factories. Discharge from petroleum refineries. Discharge from petroleum refineries. Discharge from factories and dry cleaners. Discharge from factories and dry cleaners. Discharge from petroleum factories. Lischarge from metal degreasing sites and other factories. Leaching from PVC piping; discharge from plastics factories. Discharge from petroleum factories; discharge from chemical factories.
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#### Turbidity

	Limit							
	(Treatment Technique)	Level Detected	Violation	Likely Source of Contamination				
Highest single measurement	1 NTU	0.31 NTU	No	Soil runoff.				
Lowest monthly percentage (%) meeting limit	0.3 NTU	100.00%	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)	2020	1.75	1.00	2.20	4.00	<4.0	ppm	Disinfectant used to control microbes.	
Chlorine Dioxide	2020	0	0	0	0.80	0.80	ppm	Disinfectant.	
Chlorite	2020	0.0475	0	0.483	1.00	N/A	ppm	Disinfectant.	
NOTE: Water providers are requi average chlorine disinfection resid				.5 parts per milli	on (ppm) f	or systems d	lisinfecting v	ith chloramines and an annual	

#### Total Organic Carbon

	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination				
Source Water	2020	5.16	3.95 - 5.16	ppm	Naturally present in the environment.				
Drinking Water	2020	3.14	2.13 - 3.14	ppm	Naturally present in the environment.				
Removal Ratio	2020	53.9	28.4 - 53.9	% removal *	N/A				
does not have unacceptable leve	ls of pathogens.	effects. The disinfectant can combine with TOC to By-products of disinfection include trihalomethane y the treatment process divided by the percent of T	s (THMs) and haloacetic a	icids (HAA) which are re					
	Cryptosporidium and Giardia								

		Highest Level			
Contaminants	Collection Date	Detected	Range of Levels Detected	Units	Likely Source of Contamination
Cryptosporidium	2020	0	0 - 0	(Oo) Cysts/L	Human and animal fecal waste.
Giardia	2020	0	0 - 0	(Oo) Cysts/L	Human and animal fecal waste.

			Le	ead and Copper				
Lead and Copper	Date Sampled	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination	
Copper	2019	1	0.47	0	ppb	No	Corrosion of household plumbing systems; erosion of natural deposits.	
Lead	2020	0.00	1.2	0	ppm	No	Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems.	
DDITIONAL HEALTH INFORM drinking water is primarily fror ut cannot control the variety of ushing your tap for 30 seconds formation on lead in drinking v t http://www.epa.gov/safewate	m materials and co materials used in s to 2 minutes befor water, testing meth	plumbing compon ore using water for	ents. When your water has be drinking or cooking. If you are	een sitting for several hours, y e concerned about lead in you	vou can mini Ir water, you	imize the pol may wish to	b have your water tested.	
			Unregi	ulated Contaminar	nts			
Contaminants	Collection Date		Highest Level Detected	Range of Levels Detected	-	nits	Likely Source of Contamination	
Chloroform	2020		24.2	7.38 - 24.2		pb	By-product of drinking water disinfection.	
Bromoform	2020		2.12	1.68 - 2.12		pb	By-product of drinking water disinfection.	
Bromodichloromethane	2020		16.4	4.48 - 16.4		pb	By-product of drinking water disinfection.	
Dibromochloromethane	2020		9.4	2.25 - 9.4 tion by-products. There is no r		pb	By-product of drinking water disinfection.	
			Secondary and Ot Highest Level	her Constituents I	Not Reg	ulated		
Contaminants	Collection Date		Detected	Range of Levels Detected		nits	Likely Source of Contamination	
Aluminum	2020	Levels I	ower than detect level	0 - 0		om	Erosion of natural deposits.	
Calcium	2020		62.4	58.3 - 62.4	р	om	Abundant naturally occurring element.	
Chloride	2020		78.9	23.2 - 78.9	p	om	Abundant naturally occurring element; used in water purification by-product of oil field activity.	
Iron	2020	Levels I	ower than detect level	0 - 0		om	Erosion of natural deposits; iron or steel water delivery equipment or facilities.	
Magnesium	2020		9.40	8.83 - 9.40		om	Abundant naturally occurring element.	
Manganese	2020		0.017	0.012 - 0.017		om	Abundant naturally occurring element.	
Nickel	2020		0.0068	0.0066 - 0.0068		om	Erosion of natural deposits.	
pH	2020		8.60	8.04 - 8.60	-	nits	Measure of corrosivity of water.	
Silver	2020	Levels I	ower than detect level	0 - 0	р	om	Erosion of natural deposits.	
Sodium	2020		68.5	62.7 - 68.5	р	om	Erosion of natural deposits; by-product of oil field activity.	
Sulfate	2020		158	42.0 - 158		om	Naturally occurring; common industrial by-product; by-product oil field activity.	
Total Alkalinity as CaCO3	2020		107	72.0 - 107	р	om	Naturally occurring soluble mineral salts.	
Total Dissolved Solids	2020		504	265 - 504		om	Total dissolved mineral constituents in water.	
Total Hardness as CaCO3	2020		207	106 - 207	p	om	Naturally occurring calcium.	
Zinc	2020	Levels I	ower than detect level	0 - 0	р	om	Moderately abundant naturally occurring element used in the metal industry.	
			v	iolations Table				
			Violation Explanation					
olation Type	Violation Begin	Violation End			Violati	on Explanati	on	

#### NTMWD Tawakoni Water Treatment Plants Water Quality Data for Year 2020

			COL	iform Bac	teria					
				Fecal Coliform						
				or E. Coli						
Maximum Contaminant	Total Colif	orm Maximum		Maximum Contaminant		of Positive or Fecal				
Level Goal 0		ninant Level nonthly sample	Highest No. of Positive 0.00	Level 0		o Samples	Violation	Likely Source of Contamination Naturally present in the environment.		
NOTE: Reported monthly tests for potentially harmful, bacteria may	ound no fecal co		iforms are bacteria that are natu	rally present in	the enviror	nment and a	re used as ar			
Regulated Contaminants										
Disinfectants and	Collection Date	Highest Level Detected		MCLG	MCL	Units	Violation	Likely Source of Contamination		
Disinfection By-Products Total Haloacetic Acids (HAA5)	2020	17	Range of Levels Detected 8.1 - 20.5	No goal for the total	60	ppb	No	Likely Source of Contamination By-product of drinking water disinfection.		
Total Trihalomethanes (TTHM)	2020	39	14.3 - 52.1	No goal for the total	80	ppb	No	By-product of drinking water disinfection.		
Bromate	2020	Levels lower than detect level	0 - 0	5	10	ppb	No	By-product of drinking water ozonation.		
NOTE: Not all sample results ma sampling should occur in the future					ts may be p	part of an ev	aluation to de	termine where compliance		
Inorganic Contaminants	Collection Date	Highest Level	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination		
Antimony	2020	Levels lower than detect level	0 - 0	6	6	ppb	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; and test addition.		
Arsenic	2020	Levels lower than	0 - 0	0	10	ppb	No	Erosion of natural deposits; runoff from orchards; runoff from		
		detect level	0.054 - 0.054					glass and electronics production wastes. Discharge of drilling wastes; discharge from metal refineries;		
Bandlium	2020 2020	0.054 Levels lower than		2	2	ppm	No	erosion of natural deposits. Discharge from metal refineries and coal-burning factories;		
Beryllium	2020	detect level	0 - 0	4	4	ppb	No	discharge from electrical, aerospace, and defense industries. Corrosion of galvanized pipes; erosion of natural deposits;		
Cadmium	2020	Levels lower than detect level	0 - 0	5	5	ppb	No	discharge from metal refineries; runoff from waste batteries and paints.		
Chromium	2020	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from steel and pulp mills; erosion of natural deposits.		
Fluoride	2020	0.615	0.615 - 0.615	4	4	ppm	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.		
Mercury	2020	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)	2020	0.37	0.37 - 0.37	10	10	ppm	No	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.		
		Levels lower than						Discharge from petroleum and metal refineries; erosion of		
Selenium	2020	detect level	0 - 0	50	50	ppb	No	natural deposits; discharge from mines.		
Selenium Thallium	2020 2020	detect level Levels lower than	0 - 0	50 0.5	50 2	ррь ppb	No No	natural deposits; discharge from mines. Discharge from electronics, glass, and leaching from ore-		
Thallium Nitrate Advisory: Nitrate in drinkir	2020 ng water at level	detect level Levels lower than detect level Is above 10 ppm is	0 - 0 a health risk for infants of less t	0.5 han six months	2 of age. Hig	ppb ph nitrate lev	No rels in drinkin	natural deposits; discharge from mines. Discharge from electronics, glass, and leaching from ore- processing sites; drug factories. g water can cause blue		
Thallium	2020 ng water at level	detect level Levels lower than detect level is above 10 ppm is or short periods of tin	0 - 0 a health risk for infants of less t	0.5 han six months	2 of age. Hig	ppb ph nitrate lev	No rels in drinkin	natural deposits; discharge from mines. Discharge from electronics, glass, and leaching from ore- processing sites; drug factories. g water can cause blue		
Thallium Nitrate Advisory: Nitrate in drinkir baby syndrome. Nitrate levels ma	2020 ng water at level	detect level Levels lower than detect level is above 10 ppm is r short periods of tin Highest Level Detected	0 - 0 a health risk for infants of less t	0.5 han six months	2 of age. Hig	ppb ph nitrate lev	No rels in drinkin	natural deposits; discharge from mines. Discharge from electronics, glass, and leaching from ore- processing sites; drug factories. g water can cause blue		
Thallium Nitrate Advisory: Nitrate in drinkin baby syndrome. Nitrate levels ma care provider.	2020 ng water at level ay rise quickly fo	detect level Levels lower than detect level is above 10 ppm is or short periods of tin <b>Highest Level</b>	0 - 0 a health risk for infants of less t me because of rainfall or agricul	0.5 han six months tural activity. If	2 of age. Hig you are ca	ppb gh nitrate lev ring for an in	No rels in drinkin fant you shou	natural deposits; discharge from mines. Discharge from electronics, glass, and leaching from ore- processing sites; drug factories. g water can cause blue uld ask advice from your health		
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Hexachlorobenzene	2018	Levels lower than	0 - 0	0	1	ppb	No	Discharge from metal refineries and agricultural chemical
		detect level Levels lower than					-	factories.
Hexachlorocyclopentadiene	2018	detect level	0 - 0	50	50	ppb	No	Discharge from chemical factories.
Lindane	2018	Levels lower than detect level	0 - 0	200	200	ppt	No	Runoff / leaching from insecticide used on cattle, lumber, and gardens.
Methoxychlor	2018	Levels lower than detect level	0 - 0	40	40	ppb	No	Runoff / leaching from insecticide used on fruits, vegetables, alfalfa, and livestock.
Oxamyl [Vydate]	2018	Levels lower than detect level	0 - 0	200	200	ppb	No	Runoff / leaching from insecticide used on apples, potatoes, and tomatoes.
Pentachlorophenol	2018	Levels lower than detect level	0 - 0	0	1	ppb	No	Discharge from wood preserving factories.
Picloram	2018	Levels lower than detect level	0 - 0	4	500	ppb	No	Herbicide runoff.
Simazine	2018	Levels lower than detect level	0 - 0	4	4	ppb	No	Herbicide runoff.
Toxaphene	2018	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	2020	Levels lower than detect level	0 - 0	200	200	ppb	No	Discharge from metal degreasing sites and other factories.
1, 1, 2 - Trichloroethane	2020	Levels lower than detect level	0 - 0	3	5	ppb	No	Discharge from industrial chemical factories.
1, 1 - Dichloroethylene	2020	Levels lower than detect level	0 - 0	7	7	ppb	No	Discharge from industrial chemical factories.
1, 2, 4 - Trichlorobenzene	2020	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge from textile-finishing factories.
1, 2 - Dichloroethane	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from industrial chemical factories.
1, 2 - Dichloropropane	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from industrial chemical factories.
Benzene	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories; leaching from gas storage tanks and landfills.
Carbon Tetrachloride	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from chemical plants and other industrial activities.
Volatile Organic Contaminants	Collection Date	Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Seyres of Contemination
Chlorobenzene	2020	Levels lower than	0 - 0	100	100	ppb	No	Likely Source of Contamination Discharge from chemical and agricultural chemical factories.
		detect level Levels lower than					-	
Dichloromethane	2020	detect level Levels lower than	0 - 0	0	5	ppb	No	Discharge from pharmaceutical and chemical factories.
Ethylbenzene	2020	detect level	0 - 0	0	700	ppb	No	Discharge from petroleum refineries.
Styrene	2020	Levels lower than detect level	0 - 0	100	100	ppb	No	Discharge from rubber and plastic factories; leaching from landfills.
Tetrachloroethylene	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from factories and dry cleaners.
Toluene	2020	Levels lower than detect level	0 - 0	1	1	ppm	No	Discharge from petroleum factories.
Trichloroethylene	2020	Levels lower than detect level	0 - 0	0	5	ppb	No	Discharge from metal degreasing sites and other factories.
Vinyl Chloride	2020	Levels lower than detect level	0 - 0	0	2	ppb	No	Leaching from PVC piping; discharge from plastics factories.
Xylenes	2020	Levels lower than detect level	0 - 0	10	10	ppm	No	Discharge from petroleum factories; discharge from chemical factories.
cis - 1, 2 - Dichloroethylene	2020	Levels lower than detect level	0 - 0	70	70	ppb	No	Discharge from industrial chemical factories.
o - Dichlorobenzene	2020	Levels lower than detect level	0 - 0	600	600	ppb	No	Discharge from industrial chemical factories.
p - Dichlorobenzene	2020	Levels lower than detect level	0 - 0	75	75	ppb	No	Discharge from industrial chemical factories.
trans - 1, 2 - Dicholoroethylene	2020	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	0.15 NTU	No	Soil runoff.					
Lowest monthly percentage (%) meeting limit	0.3 NTU	100.00%	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)	2020	1.75	1.00	2.20	4.00	<4.0	ppm	Disinfectant used to control microbes.	
Chlorine Dioxide	2020	0	0	0	0.80	0.80	ppm	Disinfectant.	
Chlorite	2020	0.18	0.01	0.66	1.00	N/A	ppm	Disinfectant.	
NOTE: Water providers are require average chlorine disinfection resid				5 parts per mill	ion (ppm) f	or systems d	isinfecting w	th chloramines and an annual	

Total Organic Carbon								
	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination			
Source Water	ater 2020 6.17 4.61 - 6.17 ppm Naturally present in the environment.							
Drinking Water	2020	2.67	1.79 - 2.67	ppm	Naturally present in the environment.			
Removal Ratio	Ratio 2020 61.6 47.6 - 61.6 % removal * N/A							
NOTE: Total organic carbon (TOC) has no health effects. The disinfectant can combine with TOC to form disinfection by-products. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. By-products of disinfection include trihalomethanes (THMs) and haloacetic acids (HAA) which are reported elsewhere in this report. *Removal ratio is the percent of TOC removed by the treatment process divided by the percent of TOC required by TCEQ to be removed.								
Cryntosporidium and Giardia								

		Highest Level					
Contaminants	Collection Date	Detected	Range of Levels Detected	Units	Likely Source of Contamination		
Cryptosporidium	2020	0	0 - 0	(Oo) Cysts/L	Human and animal fecal waste.		
Giardia	2020	0	0 - 0	(Oo) Cysts/L	Human and animal fecal waste.		

Lead and Copper							
Lead and Copper	Date Sampled	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Lead	2019	15	0.47	0	ppb		Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing systems.
Copper	2019	1.3	1.2	0	ppm		Corrosion of household plumbing systems; erosion of natural deposits.

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. High Point WSC 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	2020	24.2	7.38 - 24.2	ppb	By-product of drinking water disinfection.	
Bromoform	2020	2.12	1.68 - 2.12	ppb	By-product of drinking water disinfection.	
Bromodichloromethane	2020	16.4	4.48 - 16.4	ppb	By-product of drinking water disinfection.	
Dibromochloromethane	2020	9.4	2.25 - 9.4	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.						

Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	Units	Likely Source of Contamination
Aluminum	2020	0.044	0.044 - 0.044	ppm	Erosion of natural deposits.
Calcium	2020	38.9	38.9 - 38.9	ppm	Abundant naturally occurring element.
Chloride	2020	16.8	10.9 - 16.8	ppm	Abundant naturally occurring element; used in water purificatio by-product of oil field activity.
Iron	2020	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits; iron or steel water delivery equipment or facilities.
Magnesium	2020	2.87	2.87 - 2.87	ppm	Abundant naturally occurring element.
Manganese	2020	0.0059	0.0059 - 0.0059	ppm	Abundant naturally occurring element.
Nickel	2020	0.0039	0.0039 - 0.0039	ppm	Erosion of natural deposits.
pH	2020	8.40	7.60 - 8.40	units	Measure of corrosivity of water.
Silver	2020	Levels lower than detect level	0 - 0	ppm	Erosion of natural deposits.
Sodium	2020	14.9	14.9 -14.9	ppm	Erosion of natural deposits; by-product of oil field activity.
Sulfate	2020	73.50	50.1 - 73.5	ppm	Naturally occurring; common industrial by-product; by-product o oil field activity.
Total Alkalinity as CaCO3	2020	65.0	54.0 - 65.0	ppm	Naturally occurring soluble mineral salts.
Total Dissolved Solids	2020	258.00	155 - 258	ppm	Total dissolved mineral constituents in water.
Total Hardness as CaCO3	2020	127.00	98.8 - 127	ppm	Naturally occurring calcium.
Zinc	2020	Levels lower than detect level	0 - 0	ppm	Moderately abundant naturally occurring element used in the metal industry.