D & M Water Supply Corporation 2018 Water Quality Report

Consumer Confidence Report PWS ID Number: TX1740010

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.

For more information regarding this report contact: General Manager Robert Shumate at 936-559-9900. Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al teléfono (936)559-9900.

Where do we get our drinking water? The sources of drinking water used by D & M WSC are Ground Water and Surface Water. Ground Water comes from the Wilcox-Carrizo Aquifer. Surface Water comes from Lake Nacogdoches and is purchased from the City of Nacogdoches. The TCEQ completed an assessment of your source water and results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants may be found in this Consumer Confident Report. For more information on source water assessments and protection efforts at our system, contact Robert Shumate, General Manager 936-559-9900. For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: https://dww2.tceq.texas.gov/DWW/. Water loss for our water system was less than 20% for 2018.

Information about your Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791. Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are 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 the system's business office.

 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

undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in

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

PUBLIC PARTICIPATION OPPORTUNITES

The public may attend Board of Director meetings. The next meeting is: July 18, 2019 at 6:30 p.m. Regular meetings are the 3rd Thursday of each month. For a current schedule and meeting notices please visit http://www.dmwater.org/board-meetings or call 936-559-9900. If you are interested in serving as a director, please contact us for details.

		Definitions a	nd Abbreviations							
The following tables contain scientific	terms and measu	ures, some of which may require explan	nation.							
Action Level:		The concentration of a contaminant	which, if exceeded, triggers treatment or other	requirements which a w	rater system must follow.					
Action Level Goal (ALG):		The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.								
Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.										
Level 1 Assessment:		A Level 1 assessment is a study of bacteria have been found in our wat	the water system to identify potential problems er system.	and determine (if possi	ble) why total coliform					
Level 2 Assessment:		A Level 2 assessment is a very deta	ailed study of the water system to identify pote or why total coliform bacteria have been found	ntial problems and deter	mine (if possible) why an E. multiple occasions.					
Maximum Contaminant Level or MCL	.:		nat is allowed in drinking water. MCLs are set	•						
Maximum Contaminant Level Goal or	· MCLG:	•	g water below which there is no known or exp	ected risk to health. MCI	Gs allow for a margin of					
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 neces 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 of the use of disinfectants to control microbial contaminants.										
MFL		million fibers per liter (a measure of	asbestos)							
mrem:		millirems per year (a measure of rad	liation absorbed by the body)							
na:		not applicable.								
NTU		nephelometric turbidity units (a mea	sure of turbidity)							
pCi/L		picocuries per liter (a measure of rac	dioactivity)							
ppb:		micrograms per liter or parts per billi	on - or one ounce in 7,350,000 gallons of water	er.						
ppm:		milligrams per liter or parts per millio	n - or one ounce in 7,350 gallons of water.							
ppq		parts per quadrillion, or picograms p	er liter (pg/L)							
ppt		parts per trillion, or nanograms per li	ter (ng/L)							
Treatment Technique or TT:		A required process intended to redu	ce the level of a contaminant in drinking water.							
Source Water Name		Type of Water								
1 - Alazan	Ala	zan Plant	Groundwater	Active	Wilcox-Carrizo					
3 - Press Rd	Pres	ss Rd Plant	Groundwater	Active	Wilcox-Carrizo					
4 - Press Rd Remote		ss Rd Plant	Groundwater	Active	Wilcox-Carrizo					
5 – Gravel Ridge	Gra	vel Ridge Plant	Groundwater	Active	Wilcox-Carrizo					

Source Water Name		Type of Water						
1 - Alazan	Alazan Plant	Groundwater	Active	Wilcox-Carrizo				
3 - Press Rd	Press Rd Plant	Groundwater	Active	Wilcox-Carrizo				
4 - Press Rd Remote	Press Rd Plant	Groundwater	Active	Wilcox-Carrizo				
5 – Gravel Ridge	Gravel Ridge Plant	Groundwater	Active	Wilcox-Carrizo				
7 - New Douglass	Douglass Plant	Groundwater	Active	Wilcox-Carrizo				

Lead and Copper Testing is done at the customer's taps. Testing is done every 3 years.

Ecau and Copper Test	ing is done at	the custome	or staps. restri	ig is done	every 5 year	3•			
Lead and Copper	Collection Date	MCLG	Action Level (AL)	90 th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination	
Copper	2016	1.3	1.3	0.398	1	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	
Lead	2016	0	15	1.81	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.	
Disinfectants and Disinfection By- Products	Collection Date	Highest Level	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Haloacetic Acids (HAA5)	2018	42.2	7.9 – 42.2	na	60	ppb	N	By-product of drinking water disinfection.	
*The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year.									
Total Trihalomethanes (TTHM)	2018	80.3	12.5 – 80.3	na	80	ppb	N	By-product of drinking water disinfection.	

^{*}The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year.

Inorganic Contaminants	Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2017	0.063	0.056 – 0.063	2	2	ppm	N	Discharge of drilling wastes and metal refineries; Erosion of natural deposits.
Fluoride	2017	0.0715	0.0462 - 0.0715	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2018	0.0788	0.0157 - 0.0788	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2016	1.5	1.5 – 1.5	0	5	pCi/L	N	Erosion of natural deposits.
Synthetic organic contaminants including pesticides and herbicides	Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Atrazine	2018	0.5	0 – 0.5	3	3	Ppb	N	Runoff from herbicide used on row crops.
Maximum Residual Dis	sinfectant Le	vel						

2018

Total Coliform

Disinfectant Residual	Date	Average Level	Minimum Level	Maximum Level	MI	RDL	Violati	ion	MRDLG	Unit of Measure	Source in Drinking Water
Free Chlorine	2018	1.73	0.3	3.8	4	1.0	N		<4.0	ppm	Water additive used to control microbes.
Coliform	Date		st No. of e Results	MCLG	MCL	Viola	ation	Likely Sources			
Fecal Coliform	2018		0	0	0	N	1	Nat	turally present in the envir	onment.	
					1 positive						

Naturally present in the environment.

Fecal Coliform & E. coli REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM OR E. COLI BACTERIA.

Total Coliform REPORTED MONTHLY TESTS FOUND 1 POSITIVE MONTHLY SAMPLE FOR TOTAL COLIFORM BACTERIA. REPEAT SAMPLING RETURNED NEGATIVE.

monthly sample.

Total coliform bacteria are used as indicator of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are more hardy than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

Secondary and Unregulated Constituents: Unregulated contaminants are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulations are warranted.

Substance	Date	Average Level	Range of Levels	Units	Limit	Likely Source of Contamination
Aluminum	2017	0.01	<0.005 - 0.0096	ppm	0.2	Abundant naturally occurring element.
Barium	2017	0.137	0.018 - 0.063	ppm	2	
Bicarbonate	2017	191.2	64.6 - 390	ppm	na	Corrosion of carbonate rocks such as limestone.
Calcium	2017	2.5	0.659 - 3.76	ppm	na	Abundant naturally occurring element.
Chloride	2017	19.13	16.2 - 20.7	ppm	na	Abundant naturally occurring element.
Chromium	2017	0.000825	0 - 0.0033	ppm	na	Abundant naturally occurring element.
Magnesium	2017	1.64	< 0.2 - 2.65	ppm	na	Abundant naturally occurring element.
Manganese	2017	0.011	<0.001 - 0.28	ppm	na	Naturally occurring element; runoff from landfills, compost, brush or silage piles, or chemicals such as gasoline.
Potassium	2017	2.861	0.883 - 4.22	ppm	na	Abundant naturally occurring element.
Sodium	2017	119.4	52.7 - 219	ppm	na	Abundant naturally occurring element. Run-off from road salt, fertilizers, industry waste, or sewage.
Sulfate	2017	62.0	51.7 - 77.2	ppm	na	Abundant naturally occurring element.
Alkalinity, Total	2017	197.533	64.6 - 409	ppm	na	Alkalinity is the capacity of water to neutralize acids.
Hardness CACO3 (Calcium/Magnesium)	2014 - 2016	10.1625	1.47 – 20.8	ppm	na	Hardness is a measure of the amount of calcium and magnesium in the water. Guide: Soft 0-17; Slightly hard 17-60; Moderately hard 60-120; Hard 120-180; Very hard >180.
Total Dissolved Solids (TDS)	2017	324.667	172 - 541	ppm	1000	Inorganic salts (principally calcium, magnesium, potassium, sodium, bicarbonates, chlorides, and sulfates) and some small amounts of organic matter that are dissolved in water.

Purchased Water Source	Type of Water	Status	Location
From the City of Nacogdoches 1740003 CTY https://www.ci.nacogdoches.tx.us/DocumentCenter/View/825/Wate	Surface Water/Groundwater	Active	Lake Nacogdoches and Wilcox-Carrizo Aquifer
r-Quality-Report?bidId=			

Water Quality Test Results 2018 Regulated Contaminants City of Nacogdoches for more information concerning this report please contact The Water Utilities Manager at (936) 564-5046.

Inorganics	Date	Highest Level	Minimum Level	Maximum Level	MCL	MCL G	Units	Source of Contaminant
Barium	2018	0.047	0.047	0.047	2	2		Discharge of drilling wastes; Discharge from metal refineries; erosion of natural deposits.
Fluoride	2018	0.717	0.717	0.717	4	4	ppm	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate measured as Nitrogen	2018	0.0934	0.0808	0.0808	10	10	ppm	Runoff from fertilizer use/ leaching from septic tanks, sewage; erosion of natural deposits.
Combined Radium	2017	1.5	1	.5	5	0	pCi/L	Erosion of natural deposits.

Maximum Residual Disinfectant Level

Disinfectant	Da		Highest Level	Minimu		imum evel	M	CL	MCL G	Units	Sour	rce of Contaminant
Chloramines	20	18	3.41	Leve.	.76 4.3	evei	2	1	<4.0	ppm	Disi	nfectant to control microbes.
Disinfectants and Disinfection By-Produ	ucts	Date	e Highest Le	evel	inimum Level		imum vel	MCLO	G M	ICL	Units	Source of Contaminant
Total Haloacetic Aci	ids	2018	3 22.8		4.4 -	- 22.8		60		0	ppb	By-product of drinking water chlorination.
Total Trihalomethan	ies	2018	3 52		12.0	- 52.0		80		0	ppb	By-product of drinking water chlorination.

Fecal Coliform REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA.

Total Coliform: Total coliform bacteria are used as an indicator of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are more hardy than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

Contaminant		Date	MC	L	Highest Monthly # of positive samples		Unit of Measure	Source of Contaminant	
Total Coliform		2018	5% of month	ly samples	0		presence	Naturally occurring in the environment	
Lead and Copper	D	ate	MCLG	Action	Level (AL)	90th Percentile	Source of Contaminant		
Lead (ppb)	20	017	0.00196		0	0.015	Corrosion of housel Deposits.	nold plumbing systems; erosion of natural	
Copper (ppm)	20	017	0.286		0	1.3		nold plumbing systems; erosion of natural from wood preservatives.	

Recommended 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. This water supply 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 hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking and 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 sage Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites.

Constituent	Date	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Limits	Units	Source of Contaminant
Turbidity	2018	0.22	100% of readings were at or below 0.3	0.3	NTU	Soil Runoff.

Unregulated Contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. For additional information and data visit epa.gov, or call the Safe Drinking Water Hotline 800-426-4791.

Constituent	Date	Average	Minimum Maximum	Units	Source of Contaminant
		Level	Level Level		
Chloroform	2018	13.6	13.6 – 29.9	ppb	By-product of drinking water chlorination.
Bromodichloremethane	2018	7.02	3.54 – 15.4	ppb	By-product of drinking water chlorination.
Dibromochloromethane	2018	3.19	1.39 – 7.69	ppb	By-product of drinking water chlorination.

Secondary and Other Unregulated Constituents (No associated health effects) Substance					
Aluminum	2018	0.23	0.23 - 0.23	ppm	Abundant naturally occurring element
Bicarbonate	2018	22.3	22.3 – 22.3	ppm	Corrosion of carbonate rocks such as limestone
Chloride	2018	14.1	14.1 – 14.1	ppm	Abundant naturally occurring element; used in water purification; by-product of oil field activity.
Copper	2017	0.0897	<0.005 - 0.532	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Hardness as Ca/Mg	2016	17.26	1.31 – 33.2	ppm	Naturally occurring calcium and magnesium.
Iron	2017	0	0.0 - 0.0	ppm	Erosion of natural deposits iron or steel water delivery equipment or facilities.
Lead	2017	0.00125	<0.0005 - 0.0094	ppm	Corrosion of household plumbing systems; erosion of natural deposits.
Manganese	2018	0.034	0.034 - 0.034	ppm	Abundant naturally occurring element.
Nickel	2017	0	0	ppm	Erosion of natural deposits.
pH	2017	8.2	7.8 -8.6	units	Measure of corrosiveness of water.
Sodium	2018	17.3	17.3 – 17.3	ppm	Erosion of natural deposits; by-product of oil field Activity.
Sulfate	2018	38.3	38.3 – 38.3	ppm	Naturally occurring; common industrial by-product; by-product of oil field.
Total Alkalinity as CACo3	2018	<20	<20 - <20	ppm	Naturally occurring soluble mineral salts.
Total Dissolved Solids	2018	94	94 – 94	ppm	Total dissolved mineral constituents in water.
Zinc	2018	0.0098	0.0098	ppm	Moderately abundant naturally occurring element.

Boil Water Notices... May be issued in the event of low distribution pressure, water outages, microbiological samples found to contain E. coli or fecal coliform organisms, failure to maintain adequate chlorine residuals, or other conditions which indicate that the potability of the drinking water supply has been compromised. To ensure destruction of all harmful bacteria and other microbes, water for drinking, cooking, and making ice should be boiled and cooled prior to consumption. The water should be brought to a vigorous rolling boil and then boiled for two minutes. In lieu of boiling, you may purchase bottled water or obtain water from some other suitable source. Once the boil water notification is no longer in effect, customers will be notified in a manner similar to the original notice. Notices are issued by D & M WSC through our website http://dmwater.org/. To receive Alerts at your email address and/or by text messaging sign up for Alerts at http://dmwater.org/alerts. We also use an automated call system to send messages to the phone number of record for service areas affected. Please keep your contact information updated by visiting http://dmwater.org/customer-service. Frequently Boil Water Notices are designated for an isolated area of our water system please review the areas included in the public notice announcement.

ATTENTION: SEWER SERVICE CUSTOMERS - Help protect your environment and keep your drain lines flowing. Do not pour GREASE or CHEMICALS down your drain lines. Grease (fat, oil, butter, margarine) of any type does not dissolve in water and will cause a buildup and stop the flow of waste from draining properly. Various chemicals work against approved treatments to the sewer system and are most often hazardous to the environment.

NOTE: Bills are due the 10th of each month. To avoid a late fee, service disconnection and additional fees; all payments must be received by the due date. For your convenience Utility Payments may be made by:

- > On-line http://www.dmwater.org/ or automated pay by phone 1-855-981-2714 (convenience fee applies)
- Mail to PO Box 9, Douglass, TX 75943 (Please allow 7-10 days for processing)
- ➤ In person at 111 Buck Alley, Douglass, TX 75943
- > Save time and money sign up for automatic bank draft 936-559-9900 or download the form at http://dmwater.org/documents/305/Bank_Draft_Form.pdf
- > At Commercial Bank of Texas (CBTx) local branch offices (Please allow 5 days for processing)

About VFD donations: D & M WSC offers each customer the opportunity to make a voluntary contribution to the local voluntary fire department(s) (VFD's).

- The \$1.00 contribution amount is listed as a separate item on your monthly statement.
- These voluntary contributions will be sent to the following VFD's: Douglass VFD, Lake Nacogdoches VFD and South Nacogdoches VFD. Your donation will
 go to the VFD for your service address on your water bill.
- This voluntary contribution may be deductible under the Federal Income Tax Law.
- Customers have the right to deduct the \$1.00 VFD contribution from the bill or may choose to donate a different amount (please specify amount with payment).
- For a complete copy of the Corporation's Voluntary Contribution Policy, please make request at the Corporation's office at 111 Buck Alley, Douglass, Texas 75943, by phone 936-559-9900, Corporation's Web Page dmwater.org, or by FAX 936-559-0112.

Contacts: D & M Water Supply: (936) 559-9900 www.dmwater.org

Texas Commission on Environmental Quality Region 10, Beaumont: (409) 898-3838

Source Water Assessment https://www.tceq.texas.gov/gis/swaview=

Texas Commission on Environmental Quality Austin: (512) 239-1000

Drinking Water Watch https://dww2.tceq.texas.gov/DWW/

Environmental Protection Agency Safe Drinking Water Hotline: (800) 426-4791

http://water.epa.gov/drink/hotline/ additional information at http://www.epa.gov/safewater/lead

Conservation Tips: www.watersmart.org.

Local Emergency Response: 911