	2023 Annual Drinking Water Quality Report (Consumer Confidence Report)										
	MERCEDES Phone # 956-565-2372										
SPECIAL NOTICE Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline	INFORMATION ON SOURCES OF 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. Contaminants that may be present in source water include:										
 (800-426-4791). Public Participation Opportunities The public is encouraged to attend the City Commission meetings which are held on the first and third Thursday of each month at the Mercedes City Hall located at 400 S. Ohio Ave. For any questions regarding your drinking water or any of the information provided in the following pages please call the Mercedes Water Treatment Plant at (956) 565-2372. 	 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. 										
Our Drinking Water Currently Meets or Exceeds All Federal (EPA) Drinking Water Requirements This report is a summary of the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the attached pages. We hope this information helps you become more knowledgeable about what's in your drinking water.	 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. 										
CCR is available at (https://cityofmercedes.com/water-department/)	<i>En Español</i> Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. (956) 565 - 2372 - para hablar con una persona bilingüe en español.										

Where do we get our drinking water? Our drinking water is obtained from a combination of surface water that originates from the Rio Grande River and groundwater. A Source Water Susceptibility Assessment for your drinking water sources(s) is currently being updated by the Texas Commission on Environmental Quality. 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 on our source water protection strategies. Source water assessment information is available on Texas Drinking Water Watch at (https://dww2.tceq.texas.gov/DWW/) under City of Mercedes. For more information on source water assessments and protection efforts at our system, please contact us at (956) 565-2372.

All drinking water may contain contaminants. When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices. 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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

Secondary constituents: 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 (TCEQ), not the EPA. These constituents pose no health concerns and are only included in this report if the secondary MCL is exceeded.

About the following pages: The Table of Detected Contaminants lists all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 90 contaminants.

DEFINITIONS:

Maximum Contaminant Level (MCL) - The highest permissible level of a contaminant in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. 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. MPL – State Assigned Maximum Permissible Level. Maximum Residual Disinfectant Level (MRDL) - The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants. Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminant. Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water. Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. Level 1 Assessment - A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system. Level 2 Assessment - A Level 2 assessment is a very detailed study of the water system on multiple occasions.

ABBREVIATIONS:

LRAA – Locational Running Annual Average. MPL – Maximum Permissible Level. NTU - Nephelometric Turbidity Units. pCi/L - picocuries per liter (a measure of radioactivity). ppm - parts per million, or milligrams per liter (mg/L). ppb - parts per billion, or micrograms per liter (µg/L). mfl – million fibers per liter. NA – not applicable. ND – not detected. RAA –Running Annual Average. MRL – Minimum Reporting Limit

Sample	O and a min a min		MOL	Your	Ra	ange	Unit of	Malatan	Turing Downers of Download
Date	Contaminants	MCLG	MCL	Water	Low	High	Measure	Violation	Typical Source of Contaminant
2023	Arsenic	NA	0.01	0.0023		NA	ppm	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
2021	Asbestos	NA	7.0	0.1970	1	NA	mfl	No	Erosion of natural deposits; Household waste; Runoff from mining tailings
2023	Barium	NA	2.0	0.0642	1	NA	ppm	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2023	Lithium Total	NA	9.0	56.0*	49.6	61.4	ppb	No	Occurs naturally in igneous rocks and found in the surface and underground waters. Currently not regulated by the EPA. *Yearly Average.
2023	Mercury	NA	0.002	<0.0004	NA		ppm	No	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland.
2023	Nitrate [measured as Nitrogen]	NA	10.0	0.3700	NA		ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
2023	Selenium	NA	0.05	0.0039	1	NA	ppm	No	Discharge of petroleum and metal refineries; erosion of natural deposits; discharge from mines.
2023	PFHxA	NA	3.5	0.0033	MRL	0.0033	ppb	No	Perfluorohexanoic Acid (PFHxA) is the breakdown of other PFAS that are used in stain-resistant fabrics, paper food packaging, carpets, and manufacturing photographic film. Currently not regulated by the EPA.
2023	Thallium Total	NA	0.002	<0.0004	NA		ppm	No	Leaching from petroleum and metal refineries; Erosion of natural deposits; Discharge from factories.
2023	Total Cyanide	NA	0.2	0.0300	NA		ppm	No	Discharge from drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2023	Yttrium Total	NA	NA	125.4*	123.6	127.1	ppb	No	Occurs naturally found in combination with lanthanide elements in rare-earth minerals. Currently not regulated by the EPA. *Yearly Average

Disinfectant Residual Level

Year	Disinfectant	MRDLG	MRDL	Your Water		Individual nple	Unit of Measure	Violation	Typical Source			
RAA Low High												
2023 Chloramines 4.0 4.0 2.09 0.50 3.72 ppm No Disinfectant used to control microbes.												
Health info	Health information for Chloramine (as Chlorine). Some people who use water containing chloramines well above the MRDL could experience irritating effects to their											

eves and nose. Some people who drink water containing chloramines well above the MRDL could experience irritating effects to their eves and nose. Some people who drink water containing chloramines well above the MRDL could experience stomach discomfort or anemia.

Disinfection Byproducts – Stage 2

Year	Contaminant	MCL G	MCL	Your Water LRAA*	Indiv	ge of ridual nple	Unit of Measure	Violation	Typical Source			
LRAA" Low High												
2023	2023 Total Trihalomethanes (TTHM's) NA 80.0 40.9 22.2 55.4 ppb No Byproduct of drinking water disinfection.											
2023 Total Haloacetic Acids (HAA5's) NA 60.0 14.4 9.1 19.4 ppb No Byproduct of drinking water disinfection.												
Health information for TTHMs (Total Trihalomethanes) - Some people who drink water containing trihalomethanes above the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.												

* For Stage 2 TTHM's or Haloacetic Acids the level detected is the highest locational running annual average (LRAA). The locational running average is the average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

Lead and Copper

Year	Contaminant	MCL G	AL	Your Water 90 th Percentile	# Samples Exceeding AL	Unit of Measure	Exceeds AL	Typical Source
2022	Lead – action level at consumer taps	0	15.0	3.2	0	ppb	No	Corrosion of household plumbing systems; erosion of natural deposits.
2022	Copper – action level at consumer taps	1.3	1.3	.45	2	ppm	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

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 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.

Turbi	dity					_
Year	Contaminant	Limit (Treatment Technique)	Level detected	Violation	Source of Contaminant	l

2023	Highest single measurement (NTU's)	1.0	0.369	No	Soil runoff
2023	Lowest monthly % meeting limit	0.3	99.2%*	No	Soil runoff

*99.6% was the lowest monthly % of samples below the TT value of 0.3. A value less than 95% constitutes a TT violation. The highest single measurement was 0.369. Any measurement in excess of 1.0 NTU's is a violation unless otherwise approved by the state.

Turbidity has no health effects but may 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 that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Radioactive Contaminants

Year	Contaminant	MC LG	MCL	Your Water	Range Low High	Unit of Measure	Violation	Typical Source				
2023	Gross Alpha/photon emitters	0	15.0	3.3	NA	pCi/L	No	Decay or breakdown of natural deposits.				
2023	2023 Gross Beta/photon emitters 0 50.0* 7.5 NA pCi/L No Decay or breakdown of natural deposits.											
2023	2023 Radium - 288 0 5.0 1.5 NA pCi/L No Decay or breakdown of natural deposits.											
2023	2023 Uranium 0 30.0 0.004 NA ppb No Decay or breakdown of natural deposits.											
* EPA c	onsiders 50 pCi/L to be	the lev	el of conc	ern for beta	particles.							

Total Organic Carbon (TOC)

2023 TOC Removal 1.61 2.05 2.53 TT -System provides the alternative compliance criteria removal ratio required NA %* Naturally present in the environment.	Year	Contaminant	Lowest TOC removal ratio %	Average TOC removal ratio %	Highest TOC removal ratio %	Treatment Technique (TT)	MC LG	Unit of Measure	Source of Contaminant
	2023								

*Removal ratio is the percent of TOC removed by the treatment process divided by the percent of TOC required by TCEQ to be removed. Total organic carbon (TOC) has no health effects. The disinfectant can combine with TOC to form disinfection byproducts. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. Byproducts of disinfection include trihalomethanes (THM's) and haloacetic acids (HAA's) which are reported elsewhere in this report.

Microbiological Contaminants

Year	Contaminant	MC LG	MCL	Yearly Positives	Violation	Typical Source				
2023	Bacteria the environment.									
2023 E. coli 0 Routine and repeat samples are total coliform-positive, and either is E. coli- positive, or system fails to take repeat samples following E. coli-positive routine 0 No Human and animal fecal waste.										
No bact	No bacteriological samples in 2023 were found to be positive for Total Coliform Bacteria or E.coli.									

Microbiological Monitoring

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system.

Secon	dary and Other Co	onstituents Not	Regulated: (N	No associated	adverse health	effects)	
Year	Constituent	Your Water	Minimum Level	Maximum Level	Secondary Limit MPL	Unit of Measure	Source of Constituent
2023	Aluminum	<0.0200	NA	NA	0.05-0.2	ppm	Erosion of natural deposits; residue from some surface water treatment processes
2023	Bicarbonate	159.0	NA	NA	NA	ppm	Corrosion of carbonate rocks such as limestone.
2023	Calcium	71.6	NA	NA	100	ppm	Naturally present in the environment.
2023	Chloride	192.0	NA	NA	300.0	ppm	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2023	Copper	0.0056	NA	NA	1.0	ppm	Corrosion of household plumbing systems; Erosion of natural deposits.
2023	Fluoride	.5700	NA	NA	2.0	ppm	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
2023	Iron	<0.0100	NA	NA	0.3	ppm	Naturally occurrence from soil leaching.
2023	Magnesium	25.6	NA	NA	NA	ppm	Naturally present in the environment.
2023	Manganese	0.0281	NA	NA	0.05	ppm	Leaching from natural deposits.
2023	Nickel	0.0021	NA	NA	0.1	ppm	Erosion of natural deposits; discharge from metal factories.
2023	рН	7.0	NA	NA	>7.0	units	Measure of corrosively of water.
2023	Potassium	6.16	NA	NA	NA	ppm	Naturally present in the environment.
2023	Sodium	209.0	NA	NA	NA	ppm	Leaching from natural deposits
2023	Sulfate	305.0	NA	NA	300.0	ppm	Runoff/leaching from natural deposits; industrial wastes.

2023	Total Alkalinity as CaCO3	130.0	NA	NA	NA	ppm	Naturally occurring soluble mineral salts.
2023	Total Hardness as CaCO3	284.0	NA	NA	NA	ppm	Naturally occurring soluble mineral salts.
2023	Total Dissolved Solids	962.0	NA	NA	1000.0	ppm	Total dissolved mineral constituents in water.