



CITY OF HEREFORD MUNICIPAL WATER SUPPLY

Phone Number (806) 363-7101

2018 DRINKING WATER QUALITY REPORT (Consumer Confidence Report)

*******OUR DRINKING WATER IS SAFE*******

Our Drinking Water Meets or Exceeds all Federal (E.P.A.) Drinking Water Requirements

This report is a summary of the quality of the water that we provide our customers. The analysis was made by using data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the following pages. We hope this information helps you become more knowledgeable about your drinking water.

HEREFORD'S WATER SOURCES

Our drinking water is obtained entirely from groundwater sources. The City of Hereford operates 65 wells in and around the city. Of these wells, 50 pump from the Ogallala aquifer and 15 pump from the Santa Rosa (Dockum) aquifer. These wells have a maximum pumping capacity of approximately 15.0 million gallons per day. These 65 wells pump into four pump stations in town that have 7.5 million gallons of storage capacity. During 2018 the City supplied **1.593 billion** gallons of water to the residents and businesses of Hereford. This calculates to an average of **4.364 million** gallons per day.

The TCEQ completed an assessment of your source water, and results indicate that some of our 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 will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact the City of Hereford at (806) 363-7101.

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 these 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, which may come from sewage treatment plants, septic systems, agriculture 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 City of Hereford at (806) 363-7101.

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly or immuno-compromised; 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 can be particularly at risk for infections. You should seek advice about drinking water from your physician or health care provider. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at (800) 426-4791.

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 (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

Special Fluoride Notice

The Texas Commission on Environmental Quality (TCEQ) has notified the City of Hereford Municipal Water System, TX0590001, that the drinking water being supplied to customers has exceeded the Secondary Constituent Level (SCL) of 2.0 mg/L for fluoride.

This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/L) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by the City of Hereford Municipal Water System, has a fluoride concentration of 3.5 mg/L.

Dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

Drinking water containing more than 4 mg/L of fluoride (the U.S. Environmental Protection Agency's drinking water standard) can increase your risk of developing bone disease. Your drinking water does not contain more than 4 mg/L of fluoride, but we're required to notify you when we discover that the fluoride levels in your drinking water exceed 2 mg/L because of this cosmetic dental problem.

For more information, please call the City of Hereford Water Department at 806-363-7101. Some home water treatment units are also available to remove fluoride from drinking water.

En Espanol

Este informe incluye informacion importante sobre el agua potable. Si tiene preguntas o comentarios sobre este informe en espanol, favor de llamar al telefono (806) 363-7101 para hablar con una persona bilingue.

HOW CAN YOU GET INVOLVED?

You can get involved by attending and voicing any questions or concerns you may have at the following meeting:

DATE	June 17, 2019	LOCATION:	Commission Chamber at City Hall
TIME:	5:00 PM		224 North Lee
			Hereford, Texas

You may also contact the City of Hereford Water Department at (806) 363-7101

Regulated Contaminants Table

Lead and Copper

Collection Date	Contaminant	MCLG	Action Level (AL)	90 th Percentile	# of Sites Over AL	Unit of Measure	Violation (Y/N)	Source of Contaminant
08/09/2017	Copper	1.300	1.300	0.150	0.000	ppm	No	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems

Inorganic Contaminants

Collection Date	Contaminant	Highest Level Detected	Range of levels Detected	MCLG	MCL	Unit of Measure	Violation (Y/N)	Source of Contaminant
05/09/2017	Arsenic	2.700	2.700-2.700	0.000	10.00	ppb	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
05/09/2017	Barium	0.040	0.040-0.040	2.000	2.000	ppm	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
05/09/2017	Chromium	1.300	1.300-1.300	100.000	100.000	ppb	No	Discharge from steel and pulp mill; Erosion of natural deposits
2018	Fluoride	3.500	3.540-3.540	4.000	4.000	ppm	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
2018	Nitrate (measured as Nitrogen)	4.000	0.748-3.660	10.000	10.000	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
05/09/2017	Selenium	8.100	8.100-8.100	50.000	50.000	ppb	No	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.

Radioactive Contaminants

Collection Date	Contaminant	Highest Level Detected	Range of levels Detected	MCLG	MCL	Unit of Measure	Violation (Y/N)	Source of Contaminant
2018	Beta/Photon emitters	15.400	9.900-15.400	0.000	50.000	pCi/L*	No	Decay of natural and man-made deposits
2018	Gross alpha excluding radon & Uranium	18.000	10.000-18.00	0.000	15.000	pCi/L	No	Erosion of natural deposits
2018	Uranium	20.000	11.20-23.60	0.000	30.000	ug/l	No	Erosion of natural deposits

*EPA considers 50 pCi/L to be the level of concern for beta particles

Disinfection By-Products

Collection Date	Contaminant	Highest Level Detected*	Range of levels Detected*	MCLG	MCL	Unit of Measure	Violation (Y/N)	Source of Contaminant
2018	Haloacetic Acids (HAA5)	6.000	1.000-9.800	N/A	60.000	ppb	No	By-product of drinking water chlorination
2018	Total Trihalomethanes	10.000	3.220-13.100	N/A	80.000	ppb	No	By-product of drinking water chlorination

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

Disinfection Residual

Year	Disinfectant	Average Level	Range of levels Detected	MCLG	MCL	Unit of Measure	Violation (Y/N)	Source of Contaminant
2018	Chlorine	0.580	0.500-0.720	4.000	4.000	mg/L	No	Water additive used to control microbes

Violations Table

Lead and Copper Rule

The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

Violation Type	Violation Begin	Violation End	Explanation/Corrective Action
LEAD CONSUMER NOTICE (LCR)	12/30/2013	03/13/2018	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results. The City will provide all required test results to affected consumers for all future testing.
LEAD CONSUMER NOTICE (LCR)	12/30/2017	10/25/2018	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results. The City will provide all required test results to affected consumers for all future testing.

Consumer Confidence Rule

The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of the water delivered by the systems.

Violation Type	Violation Begin	Violation End	Explanation/Corrective Action
CCR REPORT	07/01/2018	01/31/2019	We failed to provide to you, our drinking water customers, an annual report that informs you about the quality of our drinking water and characterizes the risks from exposure to contaminants detected in our drinking water.

Definitions and Abbreviations

(The following tables contain scientific terms and measures, some of which may require explanation)

Action Level - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water 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 the water system to identify potential problems and determine (if possible) 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 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 on multiple occasions.

Maximum Contaminant Level (MCL) - The highest level of a contaminant in drinking water. MCLs are set as close to 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 not known or suspected health risk. MCLGs allow for a margin of safety.

Maximum Residual Disinfection Level (MRDL) - The highest level of disinfection allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfection Level Goal (MRDLG) - 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 contamination.

MFL - million fibers per liter (a measure of asbestos)

Mrem - millirems per year (a measure of radiation absorbed by the body)

NTU - nephelometric turbidity units (a measure of turbidity)

ppb - micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water

ppt - parts per trillion, or nanograms per liter (ng/L)

na - not applicable

pCi/L - picocuries per liter (a measure of radioactivity)

ppm - milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

ppq - parts per quadrillion, or picograms per liter (pg/L)

ppb - micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water