Annual Drinking Water Quality Report

TX1850001

BOVINA MUNICIPAL WATER SYSTEM

Annual Water Quality Report for the period of January 1 to December 31, 2016

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:

Name ___

Phone (200

,

BOVINA MUNICIPAL WATER SYSTEM is Ground Water

Sources of Drinking Water

surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the

EPAs Safe Drinking Water Hotline at (800) 426-4791. does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants

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
- discharges, oil and gas production, mining, or farming. Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses
- and can also come from gas stations, urban storm water runoff, and septic systems Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production,

Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health. 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

concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office 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

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

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 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 Drinking Water Hotline or at http://www.epa.gov/safewater/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 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

8

Information about Source Water Assessments

A Source Water Susceptibility Assessment for your drinking water source(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 source water protection strategies.

http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc= For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL:

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: http://dww.tceq.texas.gov/DWW

9 – 906 South ST	8 - BOYCE / HWY 86	7-4TH/SOUTH ST	6-1ST ST /V	5-9TH / AVE B	4-9TH/AVE D	10 - GARZA (Source Water Name
	₩Y 86	лн эт	6 - 1ST ST / W OF CEMETERY	⊌		10 - GARZA ST (SE OF CITY)	Name
906 South ST	BOYCE / HWY 86	4TH / SOUTH ST	1ST ST	9TH / AVE B	9TH / AVE D	GARZA ST (SE OF CITY)	*
GW	GW	GW	GW	GW	WĐ	GW	Type of Water
active.	achus	active	active	achive	antive	active	Report Status
Defulla la Agritar	Dipliala Aquitar	Depulator Aguiter	Orallala Aquiter	Coallala Regulter	Danilala Aguiter	Clacilate Aguitar	Location

Coliform Bacteria

Naturally present in the environment.	Z	0		-	1 positive monthly sample.	0
		Samples	Level		Contaminant Level	
		Coli or Fecal Coliform	Maximum Contaminant	Positive	Maximum	Level Goal
Likely Source of Contamination	Violation	Total No. of Positive E.	Fecal Coliform or E. Coli Total No. of Positive E.	Highest No. of	Total Coliform	Maximum Contaminant

Lead and Copper

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.

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

Lead	Copper	Lead a
		Lead and Copper
2016	2016	Date Sampled
0	1.3	MCLG
15	1.3	Action Level (AL) 90th Percentile # Sites Over AL
11	0.082	90th Percentile
0	0	# Sites Over AL
ppb	ppm	Units
z	z	Violation
Corrosion of household plumbing systems; Erosion of natural deposits.	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	Likely Source of Contamination

Water Quality Test Results

Avg:

Definitions:

Maximum Contaminant Level or MCL:

Level 1 Assessment:

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

Regulatory compliance with some MCLs are based on running annual average of monthly samples.

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

The highest level of a confaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment

found in our water system.

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

05/22/2017

Water Quality Test Results

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

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 the benefits of the use of disinfectants to control microbial contaminants.

million fibers per liter (a measure of asbestos)

돌

2

not applicable.

mem: millirems per year (a measure of radiation absorbed by the body)

nephelometric turbidity units (a measure of turbidity)

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.

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

ppm:

PCIA

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

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

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

ppq ppt

05/22/2017

=

Regulated Contaminants

Disinfectants and Disinfection Collection Date By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2016	<u> </u>	1.4 - 1.4	No goal for the total	60	ppb	z	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2016	4	4.08 - 4.08	No goal for the total	80	ppb	z	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	04/15/2015	2	2-2	0	10	ppb	z	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	04/15/2015	0.12	0.12 - 0.12	2	2	ppm	z	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	04/15/2015	1.4	1.4 - 1.4	100	100	ppb	z	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride	04/15/2015	1.4	1.4 - 1.4	4	4.0	ppm	z	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (measured as Nitrogen)	2016	υ	3.78 - 4.53	10	10	ppm	Z	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	04/15/2015	5.1	5.1 - 5.1	50	50	ppb	z	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	04/15/2015	11.3	11.3 - 11.3	0	50	рСИС*	Z	Decay of natural and man-made deposits.
*EPA considers 50 pCI/L to be the level of concern for beta particles.	the level of concern	for beta particles.						

and uranium	Gross alpha excluding radon 04/15/2015
	10
	5 - 10.6
	0
	15
	PCI/L
	N Erosi
	ion of natural deposits.

12

of

4

Discharge from petroleum factories; Discharge from chemical factories.	Z	mdd	10	10	0 - 0.00184	0.00184	2016	Xylenes
Likely Source of Contamination	Violation	Units	MCL	MCLG	Range of Levels Detected	Highest Level Detected	Collection Date	Volatile Organic Contaminants
Runoff from herbicide used on row crops.	Z	ppb	3	ယ	0-0.18	0.18	2016	Atrazine
Likely Source of Contamination	Violation	Units	MCL	MCLG	Range of Levels Detected	Highest Level Detected	Collection Date	Synthetic organic contaminants including pesticides and herbicides
Erosion of natural deposits.	z	увп	30	0	8.4 - 8.4	8.4	04/15/2015	Uranium

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	Violation Explanation
LEAD CONSUMER NOTICE (LCR)	12/30/2016	2016	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.