2017 Consumer Confidence Report for Public Water System CITY OF HILLSBORO

This is your water quality report for January 1 to December 31, 2017

For more information regarding this report contact:

CITY OF HILLSBORO provides surface water and ground water from Lake Aquilla located in Hill County.

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Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (254) 582-3478.

Definitions and Abbreviations

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

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.

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 necessary for 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 the benefits 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 radiation absorbed by the body)

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.

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

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

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

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 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 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.

Information about Source Water

CITY OF HILLSBORO purchases water from AQUILLA WSD, AQUILLA WSD provides purchase surface water from Aquillia Lake located in Hill County.

Contaminates from Aquilla WSD

			Contai	minates from	Aquina WSL	,			
Contaminate	Collection Date	Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination	
Atrazine	2017	2.8	0-2.8	N/A	3	ppb	N	Soil Run off from herbicides used on	row crops.
Cyanide	2017	0.138	0-0.138	N/A	0.2	ppm	N	Discharges from plastic & fertilizer fa discharges from steel/metal factories.	ctories;
Aluminum	2017	0.019	0-0.019	N/A	0.05 - 0.2	ppm	. N	Aluminum salts are used as coagulant municipal water that is drawn from lal reservoirs. Aluminum compounds are some antacids, food additives, and ant	kes or also found in
Barium	2017	0.052	0 - 0.052	N/A	2	ppm	N	The major sources of barium in dri are discharge of drilling wastes; di metal refineries; and erosion of na	scharge from
Chromium	2017	0.0011	0-0.0011	N/A	0.1	ppm	N	The most common forms of chromium natural waters in the environment are chromium-6. Chromium-3 and chrom naturally in the environment and are p water from the erosion of chromium d rocks and soils. Chromium-6 is also p industrial processes and manufacturin including discharges from steel and pramong others.	chromium-3 and ium-6 occur oresent in eposits found in roduced by g activities
Nickel	2017	0.0019	0-0.0019	N/A	N/A	ppm	N	Nickel may end up in water from b non-point sources. Diffuse nickel e stem from power plants, waste inc metal industries. Nickel compound applied in agriculture. Phosphate f contain traces of nickel. Nickel is o agricultural soils situated near foss industries.	missions may inerators and s are also ertilizers iften present ir
Acetone	2017	10.8	0-10.8	N/A	N/A	ppb	N	Acetone enters the air, water, and soil natural processes and human activities occurs naturally in plants, trees, volca gases, and forest fires.	s. Acetone
2-Butanone	2017	2.04	0 – 2.04	N/A	N/A	ppb	N	Butanone occurs as a natural product some trees and found in some fruits in small amounts. It is also released from car and truck exhausts. The kneffects to people from exposure to be irritation of the nose, throat, skin, and	and vegetables I to the air own health utanone are
Year	Constutuent	Highest Single Measurement	Lowest Monthly % of samples meeting limits	Turbidity Limits	Unit of Measure	Annual average		Source of Contamination	
2017	Turbidity	0.18	100	0.3	NTU	0.1		Soil Runoff	

Total Organic Carbon (TOC)

Average level in raw water: 5.39 mg/l, Average in treated water: 3.22 mg/l, Average Compliance Ratio: 1.14, Minimum Compliance Ratio 1.0

No Source Water Assessment for your drinking water source(s) has been conducted by the TCEQ for your water system. The report describes the susceptibility and the types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information in this assessment allows us to focus our source water protection strategies.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/16/2016	1.3	1.3	0.085	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	09/16/2016	0	15	1.8	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

2017 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2017	23	12 - 29.1	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
* The value in the Highest Level of	or Average Detected	column is the highest a	verage of all HAA5 san	nple results collecte	d at a location over	a year'		
Total Trihalomethanes (TTHM)	2017	15	7.93 - 17.8	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
* The value in the Highest Level o	or Average Detected	column is the highest a	verage of all TTHM sar	nple results collecte	d at a location over	a year'		
Inorganic Contaminants	Collection Date	Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Ünits	Violation	Likely Source of Contamination
Nitrate [measured as Nitrogen]	2017	2	0.178 - 1.7	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Combined Chlorine	2017	1.27	0.9 – 2.5	.4	4	ppm	N	Water additive used to control microbes.

Violations

Chlorine								
Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.								
Violation Type	Violation Begin	Violation End	Violation Explanation					
Disinfectant Level Quarterly Operating Report (DLQOR).	10/01/2017	12/31/2017	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.					

Violations

Lead and Copper Rule			
The Lead and Copper Rule protects public h containing plumbing materials.	realth by minimizing lead and co	opper levels in drinking	water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper
Violation Type	Violation Begin	Violation End	Violation Explanation
LEAD CONSUMER NOTICE (LCR)	12/30/2013	02/08/2017	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.
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