2019 Consumer Confidence Report for Public Water System SPRING PRESERVE WATER SYSTEM

This is your water quality report for January 1 to December	r 31, 2019	For more information regarding this report contact:
SPRING PRESERVE WATER SYSTEM provides ground water	from the Gulf Coast Aquifer	Name <u>David Derrick</u>
& Brazos River Basin located in Waller County.		Phone <u>936-372-9858</u>
1- Spring Preserve Water Well-24689 Hegar Springs		Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (936) 372-9858.
Definitions and Abbreviations		
Definitions and Abbreviations	The following tables contain scientific terms and mea-	sures, some of which may require explanation.
Action Level:	The concentration of a contaminant which, if exceede	ed, triggers treatment or other requirements which a water system must follow.
Action Level Goal (ALG):	The level of a contaminant in drinking water below wl	hich 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 t water system.	o identify potential problems and determine (if possible) why total coliform bacteria have been found in our
Level 2 Assessment:	A Level 2 assessment is a very detailed study of the wand/or why total coliform bacteria have been found in	rater system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurre n our water system on multiple occasions.
Maximum Contaminant Level or MCL:	The highest level of a contaminant that is allowed in d	frinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
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Maximum residual disinfectant level goal or MRDLG:	The level of a drinking water disinfectant below which control microbial contaminants.	there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to
MFL	million fibers per liter (a measure of asbestos)	
mrem:	millirems per year (a measure of radiation absorbed b	y 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.
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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.

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

'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		Likely Source of Contamination
Copper	2019	1.3	1.3	0.046	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	02/13/2018	0.234	0.234 - 0.234	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	02/13/2018	0.1	0.1 - 0.1	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]	2019	0.16	0.16 - 0.16	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
Chlorine (Free)	2019	1.44	0.68-3.30	4	4	Mg/L	N	Water additive used to control microbes.

2019 Consumer Confidence Report for Public Water System G & W WSC WOODLAND LAKES WATER SYSTEM

Τŀ	nis is your water quality report for January 1 to December	· 31, 2019	For more information regarding this report contact:
	& W WSC WOODLAND LAKES WATER SYSTEM provides g	round water from Gulf	Name <u>David Derrick</u>
Co	oast Aquifer located in Waller County.		Phone 936-372-9858
			Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (936) -372-9858.
		Type Report Status Location GW A Aquifer-Gulf Coast	
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	Action Level Goal (ALG):		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	
	Level 1 Assessment:	- · · · · · · · · · · · · · · · · · · ·	to identify potential problems and determine (if possible) why total coliform bacteria have been found in our
	Level 2 Assessment:	A Level 2 assessment is a very detailed study of the wand/or why total coliform bacteria have been found in	water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurre in our water system on multiple occasions.
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	na:	not applicable.	
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Information about Source Water

'TCEQ completed an assessment of your source water, and results indicate that our sources have a low susceptibility to 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 David Derricls, 936-372-9858.

Lead and Copper	Date Sampled	MCre	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/23/2017	1.3	1.3	0.14	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing
Lead	08/23/2017	0	15	0.63	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2019	3.1	3.1 - 3.1	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

Total Trihalomethanes	(тнм)	2019	48	48 - 48	No goal for the	80	ppb	N	By-product of drinking water disinfection.
	-				total				

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2019	7	6.6 - 6.6	0	10	ppb		Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.

While your drinking water meets EPA standards for arsenic, it does contain low levels of arsenic. EPAs standard balances the current understanding of arsenics possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Barium	2019	0.0647	0.0647 - 0.0647	2	2	ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2019	1	1.03 - 1.03	4	4.0	ppm	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.

Volatile Organic Contaminants		Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Xylenes	2019	0.0014	0.0013 - 0.0014	10	10	ppm	N	Discharge from petroleum factories; Discharge from chemical factories.

Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine (free)	2019	1.19	0.22-3.40	4	4	Mg/L	N	Water additive used to control microbes.

2019 Consumer Confidence Report for Public Water System G & W WSC FIELD STORE

For more information regarding this report contact:

of

This is your water quality report for January 1 to December 31, 2019

pCi/L

04/21/2020

G & W WSC FIELD STORE provides ground water from Gulf Coast Aquifer located in David Derrick **Grimes County.** Phone 936-372-9858 Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (936) 372-9858. Report Status Location Type 1-CR 306 GW Aguifer-Gulf Coast 2~0.25 Mi W of STP Aquifer-Gulf Coast GW Α 5-0.3 Mi E of STP on CR 306 GW Α Aquifer-Gulf Coast 6- 13577 CR 446 GW Aguifer-Gulf Coast **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. 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 Contaminant Level Goal or MCLG: 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) millirems per year (a measure of radiation absorbed by the body) mrem: not applicable. na: NTU nephelometric turbidity units (a measure of turbidity)

picocuries per liter (a measure of radioactivity)

- TX0930048 2019 2020-04-21 09-43-49.DOC

ppb:

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

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

ppq

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ppt

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

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A required process intended to reduce the level of a contaminant in drinking water.

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Information about Source Water

'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 susceptiblity 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 David Derrick, 936-372-9858.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/14/2017	1.3	1.3	0.0466	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing
Lead	09/14/2017	0	15	3.74	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2019	1	1-1	No goal for the total	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)	2019	4	3.9 - 3.9	No goal for the total	80	dqq	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	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2019	12.1	9.9 - 12.1	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2018	0.157	0.146 - 0.157	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2018	0.40	0.33 - 0.40	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2019	20.2	13.2 - 20.2	0	50	pCi/L*	N	Decay of natural and man-made deposits.

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

Combined Radium 226/228	2019	7.53	7.05 - 7.53	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2019	34.2	28 - 34.2	0	15	pCi/L	Y	Erosion of natural deposits.

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Likely Source of Contamination
Xylenes	2019	<0.05	<0.05-<0.05	10	10	ppm	 Discharge from petroleum factories; Discharge from chemical factories.

Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine (free)	2019	1.14	0.22-4.00	4	4	Mg/L	N	Water additive used to control microbes.

Violations

Gross alpha excluding radon and uranium Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer. Violation Type Violation Begin Violation End Violation Explanation MCL, AVERAGE 10/01/2019 12/31/2019 Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.

2019 Consumer Confidence Report for Public Water System G & W WSC

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Information about Source Water

'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 David Derrick, 936-372-9858.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/09/2018	1.3	1,3	0.0331	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing
Lead	08/09/2018	0	15	0.537	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units		Likely Source of Contamination
Haloacetic Acids (HAA5)	2019	1	1.2 - 1.2	No goal for the total	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)	2019	2	16 16	N1.541					7
Total Timalometranes (TTMV)	2019	1 4	1.5 - 1.5	No goal for the	80	ppb	N	By-product of drinking water disinfection.	
				total			1		
I de amé				l			1		1

^{*} 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	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2019	3	3.1 - 3.1	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium	2019	0.171	0.171 - 0.171	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2019	0.5	0.45 - 0.45	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Selenium	2019	3.2	3.2 - 3.2	50	50	ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2019	4.7	4.7 - 4.7	0	50	pCi/L*	N	Decay of natural and man-made deposits.

Combined Radium 226/228	03/06/2018	2.16	2.16 - 2.16	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2019	3.8	3.8 - 3.8	0	15	pCi/L	N	Erosion of natural deposits.

Volatile Organic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Xylenes	2019	0.0006	0 - 0.0006	10	10	ppm	N	Discharge from petroleum factories; Discharge from chemical factories.

Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chlorine (free)	2019	1.43	0.39-3.60	4	4	Mg/L	N	Water additive used to control microbes.

04/21/2020