2019 Consumer Confidence Report for Public Water System RURAL BARDWELL WSC

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

RURAL BARDWELL WSC provides surface water from **Rockett SUD.** ROCKETT SUD provides purchase surface water from **City of Midlothian and City of Waxahachie** located in **Ellis County**.

For more information regarding this report contact:

Name Tommy Bradley

Phone (800) 338-6425 Ext. 3315

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (800) 338-6425 Ext. 1151

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.

Public Participation Opportunities
Date: August 13, 2020
Time: 7:00 pm
Location: Bardwell Church of Christ, 404 Waxahachie Avenue, Bardwell, TX 75101

Information about Source Water

RURAL BARDWELL WSC purchases water from ROCKETT SUD. ROCKETT SUD provides purchase surface water from **City of Midlothian and City of Waxahachie** located in **Ellis County**.

Water System Detail Information			
Water System No.:	TX0700033	Federal Type:	C
Water System Name:	ROCKETT SUD	Federal Source:	SWP
Principal County Served:	ELLIS	System Status:	A
Principal City Served:		Activity Date:	01-01-1913

PBCU Sample Summary Results

MP Begin Date	Type	# Samples	Measure	Units	Analyte Code/Name	Last Sample Date
01-01-2017 12-31-2019	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2017 12-31-2019	90%	30	0.106	MG/L	CU90 - COPPER SUMMARY	07-24-2019
01-01-2017 12-31-2019	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2017 12-31-2019	90%	30	0	MG/L	PB90 - LEAD SUMMARY	07-24-2019
01-01-2014 12-31-2016	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2014 12-31-2016	90%	30	0.06	MG/L	CU90 - COPPER SUMMARY	08-25-2016
01-01-2014 12-31-2016	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2014 12-31-2016	90%	30	0	MG/L	PB90 - LEAD SUMMARY	08-25-2016
01-01-2013	90%	30	0.121	MG/L	CU90 - COPPER SUMMARY	07-25-2013

12-31-2013						
01-01-2013 12-31-2013	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2013 12-31-2013	90%	30	0	MG/L	PB90 - LEAD SUMMARY	07-25-2013
01-01-2013 12-31-2013	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2008 12-31-2010	90%	29	0.045	MG/L	CU90 - COPPER SUMMARY	07-28-2010
01-01-2008 12-31-2010	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2008 12-31-2010	90%	29	0.00091	MG/L	PB90 - LEAD SUMMARY	07-28-2010
01-01-2008 12-31-2010	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2005 12-31-2007	90%	30	0.0057	MG/L	CU90 - COPPER SUMMARY	08-15-2007
01-01-2005 12-31-2007	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2005 12-31-2007	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2005 12-31-2007	90%	30	0	MG/L	PB90 - LEAD SUMMARY	08-15-2007

Water System Detail Information			
Water System No.:	TX0700005	Federal Type:	C
Water System Name:	CITY OF MIDLOTHIAN	Federal Source:	SW
Principal County Served:	ELLIS	System Status:	A
Principal City Served:		Activity Date:	01-01-1913

PBCU Sample Summary Results

MP Begin Date	Type	# Samples	Measure	Units	Analyte Code/Name	Last Sample Date
01-01-2017 12-31-2019	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2017 12-31-2019	90%	30	0.19	MG/L	CU90 - COPPER SUMMARY	06-30-2019

01-01-2017 12-31-2019	90%	30	0	MG/L	PB90 - LEAD SUMMARY	06-30-2019
01-01-2017 12-31-2019	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2014 12-31-2016	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2014 12-31-2016	90%	30	0.18	MG/L	CU90 - COPPER SUMMARY	09-15-2016
01-01-2014 12-31-2016	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2014 12-31-2016	90%	30	0	MG/L	PB90 - LEAD SUMMARY	09-15-2016
01-01-2011 12-31-2013	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2011 12-31-2013	90%	30	0.162	MG/L	CU90 - COPPER SUMMARY	07-25-2013
01-01-2011 12-31-2013	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2011 12-31-2013	90%	30	0	MG/L	PB90 - LEAD SUMMARY	07-25-2013
01-01-2008 12-31-2010	90%	30	0.213	MG/L	CU90 - COPPER SUMMARY	08-05-2010
01-01-2008 12-31-2010	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2008 12-31-2010	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2008 12-31-2010	90%	30	0.00141	MG/L	PB90 - LEAD SUMMARY	08-05-2010
01-01-2005 12-31-2007	90%	30	0.196	MG/L	CU90 - COPPER SUMMARY	
01-01-2005 12-31-2007	90%	30	0.0013	MG/L	PB90 - LEAD SUMMARY	

Water System Detail Information			
Water System No.:	TX0700008	Federal Type:	C
Water System Name:	CITY OF WAXAHACHIE	Federal Source:	SW
Principal County Served:	ELLIS	System Status:	A
Principal City Served:		Activity Date:	01-01-1913

PBCU Sample Summary Results

MP Begin Date	Type	# Samples	Measure	Units	Analyte Code/Name	Last Sample Date
01-01-2017 12-31-2019	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2017 12-31-2019	90%	30	0.069	MG/L	CU90 - COPPER SUMMARY	06-20-2019
01-01-2017 12-31-2019	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2017 12-31-2019	90%	30	0.002	MG/L	PB90 - LEAD SUMMARY	06-20-2019
01-01-2016 12-31-2016	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2016 12-31-2016	90%	30	0.122	MG/L	CU90 - COPPER SUMMARY	07-13-2016
01-01-2016 12-31-2016	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2016 12-31-2016	90%	30	0.001	MG/L	PB90 - LEAD SUMMARY	07-13-2016
01-01-2013 12-31-2015	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2013 12-31-2015	90%	11	0.2	MG/L	CU90 - COPPER SUMMARY	08-05-2015
01-01-2013 12-31-2015	90%	11	0.0015	MG/L	PB90 - LEAD SUMMARY	08-05-2015
01-01-2013 12-31-2015	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2010 12-31-2012	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2010 12-31-2012	90%	30	0.25	MG/L	CU90 - COPPER SUMMARY	08-10-2012

01-01-2010 12-31-2012	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2010 12-31-2012	90%	30	0.00175	MG/L	PB90 - LEAD SUMMARY	08-10-2012
01-01-2007 12-31-2009	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2007 12-31-2009	90%	30	0.204	MG/L	CU90 - COPPER SUMMARY	
01-01-2007 12-31-2009	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2007 12-31-2009	90%	30	0	MG/L	PB90 - LEAD SUMMARY	
01-01-2004 12-31-2006	90%	0	0.256	MG/L	CU90 - COPPER SUMMARY	
01-01-2004 12-31-2006	90%	0	0.0034	MG/L	PB90 - LEAD SUMMARY	

Water System Detail Information			
Water System No.:	TX0700023	Federal Type:	C
Water System Name:	RURAL BARDWELL WSC	Federal Source:	SWP
Principal County Served:	ELLIS	System Status:	A
Principal City Served:		Activity Date:	01-01-1913

PBCU Sample Summary Results

MP Begin Date	Type	# Samples	Measure	Units	Analyte Code/Name	Last Sample Date
01-01-2019 06-30-2019	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2019 06-30-2019	90%	20	0.117	MG/L	CU90 - COPPER SUMMARY	06-26-2019
01-01-2019 06-30-2019	90%	20	0	MG/L	PB90 - LEAD SUMMARY	06-26-2019
01-01-2019 06-30-2019	AL	1 Exceeding Action Level			PB90 - LEAD SUMMARY	
07-01-2018 12-31-2018	90%	20	0.0829	MG/L	CU90 - COPPER SUMMARY	12-17-2018
07-01-2018	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	

12-31-2018						
07-01-2018 12-31-2018	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
07-01-2018 12-31-2018	90%	20	0	MG/L	PB90 - LEAD SUMMARY	12-17-2018
01-01-2017 06-30-2017	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2017 06-30-2017	90%	20	0.098	MG/L	CU90 - COPPER SUMMARY	06-01-2017
01-01-2017 06-30-2017	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2017 06-30-2017	90%	20	0.002	MG/L	PB90 - LEAD SUMMARY	06-01-2017
01-01-2012 12-31-2014	90%	10	0.11	MG/L	CU90 - COPPER SUMMARY	09-12-2014
01-01-2012 12-31-2014	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2012 12-31-2014	90%	10	0.0014	MG/L	PB90 - LEAD SUMMARY	09-12-2014
01-01-2012 12-31-2014	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	
01-01-2002 12-31-2010	AL	0 Exceeding Action Level			CU90 - COPPER SUMMARY	
01-01-2002 12-31-2010	90%	10	0.115	MG/L	CU90 - COPPER SUMMARY	07-10-2009
01-01-2002 12-31-2010	90%	10	0.00216	MG/L	PB90 - LEAD SUMMARY	07-10-2009
01-01-2002 12-31-2010	AL	0 Exceeding Action Level			PB90 - LEAD SUMMARY	

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 **Tommy Bradley, (800) 338-6425 Ext. 3315.**

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2019	1.3	1.3	0.117	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
Lead	2019	0	15	0	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

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 form the Safe Drinking Water Hotline (800) 726-4791 or at http://www.epa.gov/safewater/lead.

2019 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2019	37	16.8 - 50.4	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	47	26.8 - 57.3	No goal for the total	80	ppb	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
Barium	2019	0.034	0.034 - 0.034	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	01/10/2018	30.6	30.6 - 30.6	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2019	0.3	0.144 - 0.164	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	1	0.656 - 0.656	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	**Collection Date**	**Highest Level Detected**	**Range of Individual Samples**	**MCLG**	**MCL**	**Units**	**Violation**	**Likely Source of Contamination**

Beta/photon emitters	01/10/2018	4.1	4.1 - 4.1	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.

Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Atrazine	2019	0.1	0.1 - 0.1	3	3	ppb	N	Runoff from herbicide used on row crops.
Simazine	2019	0.17	0.17 - 0.17	4	4	ppb	N	Herbicide runoff.

Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chloramines	2019	1.96	1.1 – 2.8	4	4	mg/L	N	Water additive used to control microbes.

Violations

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
FOLLOW-UP OR ROUTINE TAP M/R (LCR)	01/01/2018	07/17/2019	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.
FOLLOW-UP OR ROUTINE TAP M/R (LCR)	07/01/2018	07/17/2019	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.
FOLLOW-UP OR ROUTINE TAP M/R (LCR)	01/01/2019	07/17/2019	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.
LEAD CONSUMER NOTICE (LCR)	04/01/2019	02/05/2020	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.
LEAD CONSUMER NOTICE (LCR)	09/29/2019	02/05/2020	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.

Public Notification Rule			
The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency).			
Violation Type	**Violation Begin**	**Violation End**	**Violation Explanation**
PUBLIC NOTICE RULE LINKED TO VIOLATION	11/07/2019	2019	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Rural Bardwell Water Supply Corporation has violated the monitoring and reporting requirements set by Texas Commission on Environmental Quality (TCEQ) in Chapter 30, Section 290, Subchapter F. Even though these were not emergencies, as our customers, you have the right to know what happened and what we are doing (or did) to correct these situations.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 7/1/2018 – 12/31/2018, 1/1/2019 – 3/31/2019, and 4/1/2019 – 12/31/2019, we did not monitor or test – or – did not complete all monitoring or testing for lead and copper and therefore cannot be sure of the quality of your drinking water during that time.

The table below lists the contaminant(s) we did not properly test for during the last year, how often we are supposed to sample for these contaminants, how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which the follow-up samples were [or will be] taken.

Contaminant	Required sampling frequency	Number of samples taken	When samples should have been taken	When samples were or will be taken
Lead and copper tap water sampling	*3 Years*	*20*	*7/31/18-12/31/18* *1/1/19 – 3/31/19* *4/1/19-12/31/19*	*12/2018* *12/2019*
Lead and Copper tap water sampling				
Water quality parameters	3 Years	20	*7/31/18-12/31/18* *1/1/19 – 3/31/19* *4/1/19-12/31/19*	12/2018 12/2019

What is being done?

We are working to correct the problem. For more information, please contact Tommy Bradley at (800) 338-6425 Ext. 3315 or P.O. Box 26, Itasca, TX 76055.

Samples are being taken on a regular basis.

Please share this information with all other people who drink this water, especially those who may not have received this notice directly (i.e., people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by Rural Bardwell Water Supply Corporation. Public Water System Number: TX0700023

Date Distributed: June 3, 2020