## 2020 Consumer Confidence Report for Public Water System TOWN OF RANSOM CANYON

For more information regarding this report contact:

TOWN OF RANSOM CANYON provides surface water and ground water from The City Name | Cory Needham of Lubbock who blends surface water from Lake Alan Henry and Canadian River MWA with ground water from Bailey County and Roberts County Well Fields. Phone (806)829-2470 Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (806) 829-2470. **Definitions and Abbreviations** Definitions and Abbreviations The following tables contain scientific terms and measures, some of which may require explanation. The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. Action Level: 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)

This is your water quality report for January 1 to December 31, 2020

#### **Definitions and Abbreviations**

ppb: micrograms per liter or parts per billion
ppm: milligrams per liter or parts per million

ppt 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
morniusion model obtailed tracel
TOWN OF RANSOM CANYON purchases water from LUBBOCK PUBLIC WATER SYSTEM. LUBBOCK PUBLIC WATER SYSTEM provides purchase surface water from Canadian River MWA located in Roberts County, Tx

		WA	TER QUA	ALITY RE	PORT D	ATA - 20	020		
CONTAMINANT	Year of Range	Average Level		Maximum Level		MCLG	Unit of Measure	Contaminant Sources	Violation
		SU	BSTANCES R	REGULATED	AT THE TREAT	MENT PLAN	T		
BETA/PHOTON EMITTERS	2017	6.2	4.3	8.1	50 *	0	pCi/L	Decay of natural and man- made deposits	NO
ALPHA EMITTERS	2017	4.5	2	7	15	0	pCi/L	Erosion of natural deposits	NO
URANIUM	2017	4.2	3.5	4.9	30	0	ppb	Erosion of natural deposits	NO
ARSENIC	2020	1.9	1.8	2	10	0	ppb	Erosion of natural deposits; runoff from orchards	NO
BARIUM	2020	0.16	0.12	0.19	2	2	dqq	Erosion of natural deposits	NO
CHROMIUM	2020	2.7	1.7	3,7	100	100	ppb	Erosion of natural deposits	NO
CYANIDE	2020	121,4	77.3	187	200	200	ppb	Discharge from steel/metal, plastic, and tertilizer factories	NO
FLUORIDE	2020	1.01	0.655	1.36	4	4	ppm	Erosion of natural deposits	NO
NITRATE	2020	0.871	0.134	1,41	10	10	ppm	Fertilizer runoff, septic tank leachate, sewage, erosion	NO
TURBIDITY	2020	0.032	0.02	0.06	***% < 0.3 (TT)	0	NTU	Soil runoff	NO
TOTAL ORGANIC CARBON	2020	1.38	0.92	168%	Π	π	ppm	Naturally present in environment	NO
CHLORAMINES	2020	3.76	3.48	3.68	MRDLG=4.0	MRDLG=4.0	ppm	Disinfectant used to control microbes	NO
CHLORITE	2020	0.285	0.023	0.47	1	0.8	ppm	By- product of drinking water disinfection	NO
			AD	DITIONAL M	ONITORING			G. M. C.	
ALUMINUM	2020	0.098	0.026	0.17	0.05-0.2^^	N/A	ppm	Water Treatment Chemical	N/A
CHLORIDE	2020	193.1	16.2	286	300 ^^	N/A	ppm	Naturally occurring	N/A
SULFATE	2020	101	121	151	300 ^^	N/A	ppm	Naturally occurring	N/A
TOTAL DISSOLVED SOLIDS	2020	649	359	800	1000^^	N/A	ppm	Naturally occurring	N/A
AMMONIA	2020	0.142	0.096	0.192	Not Regulated	N/A	ppm	Water Treatment Chemical	N/A
CALCIUM	2020	43.5	39.0	51,3	Not Regulated	N/A	ppm	Naturally occurring	N/A
MAGNESIUM	2020	30.9	28.6	33.2	Not Regulated	N/A	ppm	Naturally occurring	N/A
POTASSIUM	2020	7.42	6.93	7.66	Not Regulated	N/A	ppm	Naturally occurring	N/A
SODIUM	2020	216	188	261	Not Regulated	N/A	ppm	Naturally occurring	N/A
HARDNESS	2020	240	215	264	Not Regulated	N/A	ppm	Naturally occurring	N/A
CONDUCTANCE	2020	1188	575	1530	Not Regulated	N/A	***µmho/cm	Naturally occurring	N/A
OTAL ALKALINITY	2020	191	176	226	Not Regulated	N/A	ppm	Naturally occurring	N/A

The state allows us to monitor for some substances less than once per year because the concentrations of these substances do not change frequently.

Some of our data, though representative, are more than one year old. Note: TT= Freatment Technique. \*\*\*100% of plant turbidity meets the <0.3 NTU MCL. "The MCL for beta/photon emitters is 4 mrem/year. The USEPA considers 50 pCi/L to be the level of concern for beta/photon emitters.

<sup>\*\*</sup>Running Annual Average <sup>A</sup>Highest Locational Running Annual Average

<sup>\*\*\*</sup>Note:µmhos= micromhos/cm

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.

### **Coliform Bacteria**

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/23/2018	1.3	1.3	0.052	0	ppm		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing

# **2020 Water Quality Test Results**

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units		Likely Source of Contamination
Haloacetic Acids (HAA5)	2020	12	5 - 15	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

<sup>\*</sup>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)	2020	14	5.8 - 22.3	No goal for the total	80	ррь	N	By-product of drinking water disinfection.
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<sup>\*</sup>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
Nitrate [measured as Nitrogen]	2020	1	1.01 - 1.18	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

### **Disinfectant Residual**

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).

Disinfectant Residual	Year	Average Level	Range of Levels	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
			Detected					

Total Chlorine	2020	2.33	1.04 – 3.69	4	4	mgl	N	Water additive used to control microbes.
Violations								2
Consumer Confidence F	Rule	0 L						
The Consumer Confidence Ru	le requires commu	nity water systems to pre	pare and provide to the	eir customers annua	al consumer conf	idence reports on th	ne quality of the w	ater delivered by the systems.
Violation Type		Violation Begin	Violation End	Violation Explan	ation			
Violations								

We failed to provide to you, our drinking water customers, an annual report that adequately informed you about the quality of our drinking water and the risks from exposure to contaminants detected in our drinking water.

**Total Chlorine** 

CCR ADEQUACY/AVAILABILITY/CONTENT

2020

2.33

07/01/2020

1.04 - 3.69

11/03/2020