2019 Consumer Confidence Report for Public Water System EAST GARRETT WSC

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

EAST GARRETT WSC provides surface water from **SW FROM CITY OF ENNIS** located in **ELLIS COUNTY**.

For more information regarding this report contact:

Name <u>RICHARD LANGER</u>

Phone <u>972-935-1521</u>

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (972)935-1521.

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)

Definitions and Abbreviations

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.
pqq	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

EAST GARRETT WSC purchases water from CITY OF ENNIS. CITY OF ENNIS provides purchase surface water from LAKE BARDWELL located in ELLIS COUNTY.

'TCEQ completed a Source Water Susceptibility for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the drinking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system contact **RICHARD LANGER**, 972-935-1521.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/11/2017	1.3	1.3	0.41	0	ppm	Ν	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

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
		Delected	Samples					

total

* 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	38	32 - 46.2	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
Nitrate [measured as Nitrogen]	2019	1	0.829 - 0.829	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 Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chloramines/Free Chloramines	2019	2.22	0.3-3.3	4	4	ppm	ppm	Water additive used to control microbes.

Yeer	Substance	Units	Average	Misim	ato -	Max	ulimain	340	2L	MC	10		Possible Source
2018	Banum	ppm	0.045	0.04	5	0	0.045		2		2	Erosk	on of natural deposits, discharge from drifts and metal relinences
2019	Arsenic	0077	0.0012	0.001	2	0.0	0012		010		0	Erow	on of natural deposits, runoff from orchard glass and electronic production
2019	Atrazina	ppb	0.2	03	2	ļ	0.2		3		3	,	lunall from herbicide used on row crops
2019	Flucnde	ppm	0.207	0 20	77		0 207		4		4		on of natural deposits, water additive whit notes strong teeth, discharge from ferbilize and elumenum tectories
2018	Ntrata (measured	ppm	0.103	0.10	13		0 103		10		10	R.	noll from feruizer, septic tarici, sevege, natural deposits
2017	Beta/photon emtters*2	PC-IL	6.5	61	5		65		50		Q	D	icay of natural and man - made deposits
2017	Combined Radium 225/228	PCH	15	1.6	5		15		5		0	}	Erosion of natural deposits
2019	Chioramnes "3	com	3 22	21	12		3.52	MR	DL=4	MR	DLG=4		Disinfectant used to control microbes
2019	Total Hatoacetic Acids (HAA5) *4	pob	13	8:	3		17		50		el for the stal		Byproduct of drinking water disinfection
2019 Fotal Orga	Total Tritialomethaoes (TTHM)*4 anic Carbon (TOC)*5	ppb	30	24	3		18.5		0		i for the tal		Byproduct of drinking water disinfection
2019	Bource Weter	ppm	3.81	3.35	1	4	1.12		1000	a sat	Maree.		Naturally present in the environment
2019	Drinking Water	ppm.	2.92	2.0		1	47	257.78	記む時		3.42		Naturally present in the envelopment
2010	Removal Ratio	- 16	2.03	1.13	1	3	1 06	%Ref	"isvor				NA
furbidity '				1		-		-		-		E	
Year	Substance	Units	Highest Singl Measurement				Lowest Ionthly % of Bamples letting Limit				urbidity Limite		Possible Source
2019	Turbidity	NTU	0.06				100				03	1	Soil runoff
Leed end	Copper *7										-		
Year	Substance	Units	Action Level (AL)	Numbe Sites /		M	CLO	90th Pe	econtile				Possible Source
2019	Lost	ppb	15	Q		(43) -	0	<0.0	010			· · · ·	son of household plumbing systems; eros of natural deposits
2019	Comet	POT	1.3	a			1.3	0	042				prosion of household plumbing systems, sion of natural deposits, liveching from wo preservatives
	Bacteria "8	PPIII	1										
Yest	Total Bacteriological Samples Collected	Maximu Contamin Level Go	ent Maxir	orm num ninant	Highes of Pos		Fecal Col or E.o Maxim Contami	oli um nant	Total Ho positive E or Fec: Collor Samole	al Incoli			Possible Source
			1 691			-				_			

Notes: *1 Nitzele Advisory - Nitzele in drawing water at levels above 10 ppm is a health risk for infants of less than aix months of age. High nitzete levels in drawing water can cause blue baby syndro coliform positive and one is also fecal coliform or E.coli positive

Unregulated, and second any drinking water standards. Uuregulated contaminants in this for which EPA has not established dimking water standards. The purpose of unregulated contaminant in montoring is to essuit EPA in determining the occurrence of unregulated contaminants in thickness, water and whicher Atour regulation is wermanted. Any unregulated contaminants in the following table. For additional intermision and data visit http://www.epa.gov/stewester/ucma/unregulated.contaminants interfaced are reported in the following table. For additional intermision and data visit http://www.epa.gov/stewester/ucma/unregulated.contaminants interfaced are reported in the following table. For additional intermision and data visit interfaced are gov/stelewester/ucma/unregulated.contaminants interfaced are reported in the following table. For additional intermision and data visit interfaced are gov/stelewester/ucma/unregulated.contaminents detected are reported in the following table. For additional intermision and data visit interfaced are gov/stelewester/ucma/unregulated.contaminents detected are reported in the following table. For additional intermision and data visit interfaced are gov/stelewester/ucma/unregulated.contaminents detected are reported in the following table. For additional intermision and data visit interfaced are gov/stelewester/ucma/unregulated.contaminents detected are reported in the following table. For additional intermision and data visit interfaced are gov/stelewester/ucma/unregulated.contaminents detected are reported in the following table. For additional intermision and data visit interfaced are gov/stelewester/ucma/unregulated.contaminents detected are reported in the following table. For additional intermision and data visit interfaced are gov/stelewester/ucma/unregulated are gov/stelewester/ucma/unregulated are gov/stelewester/ucma/unregulated are gov/stelewester/ucma/unregulated are gov/stelewester/ucma/unregulated are gov/stelewester/ucma/unregulated/stelewester/ucma/unregulated are gov/st

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Year	Substance	Units	Average	Minimum	Maximum	MGL	NCLO	Possible Source
2019	Chloroform	ddd	13,3	8.42	18.2	Not Regulated	Not Requisted	
2019	Bromolorm	ррь	1.7	0	2.16	100	100	By-product of dnnking water disinfection
2019	Bromochloromethane	pob	14.8	§ 1	17.2	Not Regulated	Not Regulated	not regulated individually
2019	Dibromochioromethane	deq	0.7	5 77	11.4	Not Regulated	Not Regulated	iscluded in Total Tritisiomethenes
2019	Alumnum	ppm	0.025	0.025	0.025	0.05	0.05	Abundant naturally occurring element
2018	Chloride	ppm	72 1	22.1	22.1	300	Not Regulated	Chlorides may get into surface water from several sources including motics containing chlorides, egnocubual run-off, weste water from industries, oil we8 wastes, and effluent weste water from weale water transment plants.
-								
2019	Hardness as Ca/Mg	ppm	104	104	104	NA	NA	Naturally occurring calcium and magnesium
2019	pH .	ppm	7.54	7.32	7.84	>7 0	>7.0	Measure of corrosiveness of water
2019	Sodium	ppm	17,4	17.4	17.4	NA	NA	Erosion of natural deposits, by-product of oil field activity
2019	Calcium	ppm	37.9	37.9	37.9	NA	NA	Abundant naturally occurring element
2019	Magnesium	ppm	2 24	2.24	7.24	NA	NA	Abundent naturally occurring element
2019	Suttete	ррлт	28.4	26.4	26.4	300	300	Naturally occurring; common industrial by- produc by-product of oil field activity
2019	Total Alkalinity as CeCO3	ppm	120	89	154	NA	NA	Naturally occurring soluble mineral salts
2019	Total Disactived Solids	ppm	151	153	151	1000	1000	Total desolved mineral constituents in weber

Source Water Monitoring: The Long Term 2 Enhanced Surface Water Treatment Rule (LT2 Rule) requires public water systems that use surface water to monitor their source water (influent water pror to treatment) for Cryptospondarm, Gardia, E. coli, and turbidity for 24 month period beginning in October of 2018 Dethnions: ND= Analyte not detected in sample. PQL= Practical Quantitation Limit- the control descentes hard (URL) is advected by more defined reported to the sample to detected in sample. PQL= Practical Quantitation Limit- the

Year	Substance	Units	Average	Manimum	Maximum	MCL.	MCLO	Possible Source
2018	Turbidity	NTU	15.95	7.43	30	NA	NA	Seil runoff
2018	Cryptospondium	pocystaA.	ND	NO	ND	NA	NA	Seplic tanks and animal waste
2018	Giardia	crate/L	ND	ND	ND	NA	NA	Septic tanks and animal waste
2018	E Cok	MPN/100mL	5 BPQL	0 BPCL	12.1 BPOL	NA	NA	Seplic tanks and animal weste

Rec. Rick Langer 4-1-20