City of Enterprise Water Quality Report 2019 Covering Calendar Year- 2018

This brochure is a snapshot of the quality of the water that we provided last year. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies. It is important that customers be aware of the efforts that are made continually to improve their water systems. To learn more about your drinking water, please attend any of the regular city council meetings which are held the second Tuesday of each month at 7:00 p.m. in the city council meeting chambers. For more information please contact, Paul Froelich at 785-263-8521.

Your water comes from 2 Ground Water Wells.

Some people may be more vulnerable to contaminates in drinking water than the general population. Immuno-compromised persons such as those with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the rick of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791)

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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA'S Safe Drinking Water Hotline (800-426-4791).

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.

Contaminants that may be present in source water before treatment include:

<u>Microbial contaminants</u>, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, live stock 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.

<u>Pesticides and herbicides</u>, which may come from a variety of sources such as storm water run-off, agriculture, and residential users. <u>Radioactive contaminants</u>, which can be naturally occurring or the result of mining activity.

<u>Organic contaminants</u>, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also come from gas stations, urban storm water run-off, and septic systems.

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. We treat our water according to EPA's regulations. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Our water system tested a minimum of 2 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When Coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public.

Water Quality Data

The following tables list all of the drinking water contaminants which were detected during the 2018 calendar year. The presence of these contaminants does not necessarily indicate the water poses a health risk. Unless noted, the data presented in this table is from the testing done January 1- December 31, 2018. The state requires us to monitor for certain contaminants less than once per year because the concentrations are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old. *The bottom line is that the water that is provided to you is safe!*

Terms & Abbreviations

Maximum Contaminant Level Goal (MCLG): the "Goal" is the level of a contaminant in drinking water below which there is no known or expected rick to human health. MCLGs allow for a margin of safety.

Maximum Contaminant Level (MCL): the "Maximum Allowed" MCL is the highest level of a contaminant that is allowed in drinking water. MCLs are set as a close to the MCLGs as feasible using best available treatment technology.

Secondary Maximum Contaminant Level (SMCL): recommended level for a contaminant that is not regulated and has no MCL. Action Level (AL): the concentration of a contaminant that, if exceeded, triggers treatment or other requirements. Treatment Technique (TT): a required process intended to reduce levels of a contaminant in drinking water.

Maximum Residual Disinfectant Level (MRDL): the highest level of a disinfectant allowed on drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Non-Detects (ND): lab analysis indicates that the contaminant is not present.

Parts per Million (ppm) or milligrams per liter (mg/l)
Parts per Billion (ppb) or micrograms per liter (ug/l)
Picocuries per Liter (pci/l): a measure of the radioactivity in water.

Millirems per Year (mrem/yr): measure of radiation absorbed by the body.

Million Fibers per Liter (MFL): a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU): a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is not regulated for ground water systems.

<u>Running Annual Average (RAA)</u> an average of sample results obtained over the most current 12 months and used to determine compliance with MCL'S.

Locational Running Annual Average (LRAA): Average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

DRINKING WATER ANALYSIS For 2018 Calendar Year

. 101000		,	1			7 /		1	
Violation	Typical Source	MCLG	MCL			I VESUIT	poi/l	8/10/2014	Combined Radium
		1000	MOI			Recult	Linit	Date Tested	Parameter
			Radio Chemistry	Radio C					
				in check.	y products	intection b	ators to keep dis	allow system open	of the control of the
e effectiv	The results of these tast allow system approaches the various levels of by products from the disinfection process. This became necessary after the 1988 Stage 1 Disinfectant Rule became effective.	ecame nec	process. This be	isinfection	from the d	by products	arious levels of t	d to monitor the v	he results of these test a
NO	Byproduct of disinfection	0	80		ppo	0.2	c	2010	hose tests are safe
	Byproduct of disinfection	0	60		ppo	5 0	0 2	2010	THMs
Violation		MCGL	NCL.		55 -	12	12	2018	HAA5
		F1000	Disinfection By-Products Testing	Tection By-	Linit	Range	RAA	Date Tested	Substance
		1	:						
מנמומ	hours and re tested.	d within 24	amples collecte	additional s	ong with 2	ginal site al	ple from the orig	ns must be resam	positive for Total Coli forms must be resample from the original site along with 2 additional samples collected within 24 hours and re tested
מל מל	*Total Coli forms - Two samples are collected throughout the system each month and analyzed for Total Coli forms. No sample may be positive for fecal coliform. Samples that are	li forms. N	zed for Total Co	and analy	each month	ne system	ted throughout th	amples are collec	Total Coli forms - Two sa
NO	Human and animal fecal waste	None	0			None	Positive Sample	2018	Total Collidities
Violation	Typical Source	MCLG	MCL			Result	Unit	ed	Substance
	ביסטטוי טי וימימימי מסטטויס		Microbiological Contaminants	robiologica	Mic				
	Erosion of natural deposits		5 1		0.016	0.016	MG/L	2/28/2017	Zink
	Frosion of natural deposits		0-+1		0.73	0.73	Lang	2/28/2017	Corrosivity
	Erosion of natural deposits		70 o		24	24	MG/L	2/28/2017	Silica
	Erosion of natural deposits		500		200	0.008	MG/	2/28/2017	Total Phosphorus
	Erosion of natural deposits		1500		1400.00	930	MG/I	2/28/2017	Total Dissolved Solids
	Erosion of natural deposits		6.5-8.5		7.6	1.6	FH	2/28/2017	Specific Conductivity
	Erosion of natural deposits		300		300	300	MG/L	7/28/2017	PH
	Erosion of natural deposits		400		670	670	MG/L	2/28/2017	Alkalinity
	Erosion of natural deposits		250		370	370	MG/L	2/28/2017	Sulfate
	Erosion of natural deposits		250		53	53	MG/L	2/28/2017	Chloride
	Frosion of natural deposits		100		3.4	3.4	MG/L	2/28/2017	Potassium
	Frosion of natural deposits		100		44	44	MG/L	2/28/2017	Sodium
	Erosion of natural deposits		150		49	49	MG/L	2/28/2017	Magnesium
	Lippical Source		2000		190	190	MG/L	2/28/2017	Calcium
	T	Parameters	Range 1-H SMCI	Chemistry-	Range I -H	Result	Unit	Date Tested	Substance
) homista	Inorganio				
	then every three years	r year and	itoring to one pe	educe mor	evels can r	the action	istently meeting	ap. Systems cons	AL- Action Level at the tap. Systems consistently meeting the action levels can reduce monitoring to one per year and then every three years
NO	below the action level	ual or be l	system must ed	s in a water	of the tests	e tap. 90%	e measured at th	aminant levels are	** Copper and lead-contaminant levels are measured at the tap. 90% of the tests in a water system must equal or be helped the arctic increase.
	Corrosion of household plumbing	<u>م</u> د	0 -	mad	.02232		0.32	2015-2017	Copper
Violation	Corrosion of household plumbing	15 NIGA OF	1 0100	pph dag	1-17		1	2015-2017	_ead
	Tunion Compo	May Al	Sites over Al	Unit	Range		90th Percentile	Period	Substance
		P	90th Percentile Lead and Conner	Percentile	90th			_	
NO	Runoff from fertilizer use, leaching from septic tanks	10	10			2.8	ppm	3/19/2018	Miliate (IN)
NO S	Erosion of natural deposits	50	50			6.9	dqq	2/28/2017	Nitroto (NI)
NO	Erosion of natural Deposits/Dental additive	4	4			0.24	ppm	2/28/2017	Colorine
S	Erosion of natural deposits	100	100			_	dqq	2/28/2017	Cilioinium
N G	Erosion of natural deposits	2	2			0.036	ppm	2/28/2017	Barium
5	Erosion of natural denosits	0	10			2.2	ppb	2/28/2017	Arsenic