2019 Annual Drinking Water Quality Report Culkin Water District PWS ID#: 0750002 May 2020

We're pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is from wells drawing from the Cockfield Formation Aquifer. We supplement our needs from the City of Vicksburg.

The source water assessment has been completed for our public water system to determine the overall susceptibility of its drinking water supply to identify potential sources of contamination. A report containing detailed information on how the susceptibility determinations were made has been furnished to our public water system and is available for viewing upon request. The wells for the Culkin Water District have received lower susceptibility rankings to contamination. The wells for the City of Vicksburg have received lower to higher susceptibility rankings to contamination.

If you have any questions about this report or concerning your water utility, please contact Pat McGuffie at 638.4605 or John Gunn, General Manager at 601.636.9124. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the second Monday of each month at 5:30 PM at the Culkin Water District Board Room, 2681 Sherman Ave.

We routinely monitor for contaminants in your drinking water according to Federal and State laws. This table below lists all of the drinking water contaminants that we detected during the period of January 1st to December 31st, 2018. In cases where monitoring wasn't required in 2018, the table reflects the most recent results. As water travels over the surface of land or underground, it dissolves naturally occurring minerals and, in some cases, radioactive materials and can pick up substances or contaminants from the presence of animals or from human activity; microbial contaminants, such as viruses and bacteria, that 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 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 that limit the amount of certain contaminants in water provided by public water systems. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily indicate that the water poses a health risk.

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

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 close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - The "Goal" (MCLG) is 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 (MRDL) – The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary to control microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk of health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measure -ment	MCLG		MCL	Likely Source of Contamination
Radioacti	ve Cont	aminan	its						
5. Gross Alpha	N	2019	1.6	No Range	pCi	/L	0	15	Erosion of natura

6. Radium 226 Radium 228	N	2019	.27 .53	No Range		pCi/L	0	5 Erosion of na deposits		Erosion of natura
Inorganic	Conta	aminant	S					- W W-		Серозна
8. Arsenic	N	2019	.9	No Range	ppb	n/a	10	Erosion of natural deposits; runoff fro orchards; runoff from glass and electronics production wastes		glass and
10. Barium	N	2019	.0017	No Range	ppm	2	2 2	Discharge of drilling wastes; discharge from metal refineries; erosion of natu deposits		wastes: discharge
13. Chromium	N	2019	1.5	No Range	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits		and pulp mills;
14. Copper	N	2017/19	.1	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives		
16. Fluoride**	N	2019	.838	No Range	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories		
17. Lead	N	2017/19	0	0	ppb	(AL=15	Corrosion of household plumbing systems, erosion of natural deposits		old plumbing
Disinfectio 81. HAA5 82. TTHM	N	2019	29	17 - 41 34 – 80.9	ppb	0		60 By-Product of drinking water disinfection. 80 By-product of drinking water		
				17 - 41	ppb	0)	60 By-Product of drinking water		nking water
[Total trihalomethanes] Chlorine	N	2019	1.9	.8 – 2,1	Mg/I			chlorinati	on.	ed to control
Unregulate	ad Co	ntomino	n4a				WIDITE	microbes		ed to control
Unregulate Bromide	N	2018*		1440 400	1					
			162	110 - 162	UG/L			Naturally-occurring element foun the earth's crust and at low concentrations in seawater, and some surface and ground water; cobaltous chloride was formerly in medicines and as a germicide Naturally-occurring element; commercially available in combination with other elements minerals; used in steel productio fertilizer, batteries and fireworks; drinking water and wastewater treatment chemicals; essential nutrient		and at low seawater, and in I ground water; was formerly used
Manganese	N	2018*	.51	No Range	UG/L					g element; ilable in other elements and steel production, and fireworks; d wastewater
Total Organic Carbon	N	2018*	1540	1030 - 1540	UG/L					
	ed Co	ntamina	nts				W. S			
Unregulate			The state of the s							

^{**} Fluoride level is routinely adjusted to the MS State Dept of Health's recommended level of 0.6 - 1.2 mg/l.

Contaminant	Violation Y/N	Date Collected	Level Detec ted	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measure -ment	MCLG	MCL	Likely Source of Contamination		
Radioacti	ve Conta	minants								
6. Radium 228	N	2019	.27	No Range	pCi/L	0	5	Erosion of natural deposits		
Inorganic	Contam	inants								
8. Arsenic	N	2019	1.4	No Range	ppb	n/a		Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes		
10. Barium	N	2019	.0234	No Range	ppm	2	2 1	Discharge of drilling wastes; dischar from metal refineries; erosion of nat deposits		
13. Chromium	N	2019	3.1	No Range	ppb	100	100 I	Discharge from steel and pulp mills; erosion of natural deposits		

N	2019	24000	No Range	PPB	NONE	1	NONE	Road Salt, Water Treatment Chemicals, Water Softeners and			
ed Co	ntamina	nts					1020	microbes			
N	2019	2	.8 – 3	ppm	1111	0 1	MDRL =	4 Water additive used to control			
	2010	55	45.4 – 53	ppb		0	8	By-product of drinking water chlorination.			
								By-Product of drinking water disinfection.			
			22.24								
							sep	septic tanks, sewage; erosion of natural deposits			
N	2018*	.12	No Range	ppm	10		sys	systems, erosion of natural deposits Runoff from fertilizer use; leaching from			
N	2019	.5	0	ppb	0	AL=		rrosion of household plumbing			
	2019	.003	No kange	ppm	4		4 Ero	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories			
N						AL=	sys	prosion of household plumbing stems; erosion of natural deposits; aching from wood preservatives			
	N N N N N N N N Ped Co	N 2019 N 2019 N 2018* On By-Product N 2018 N 2018 N 2019 ed Contamina	N 2019 .663 N 2019 .5 N 2018* .12 On By-Products N 2018 24 N 2018 53 N 2019 2 Ped Contaminants	N 2019 .5 0 N 2018* .12 No Range N 2018 24 23-24 N 2018 53 45.4 - 53 N 2019 2 .8 - 3 Ped Contaminants	N 2019 .663 No Range ppm N 2019 .5 0 ppb N 2018* .12 No Range ppm On By-Products N 2018 24 23-24 ppb N 2018 53 45.4 - 53 ppb N 2019 2 .8 - 3 ppm Ped Contaminants	N 2019 .663 No Range ppm 4 N 2019 .5 0 ppb 0 N 2018* .12 No Range ppm 10 PARTICIPATION OF THE PROPERTY OF T	N 2019 .663 No Range ppm 4 N 2019 .5 0 ppb 0 AL= N 2018* .12 No Range ppm 10 On By-Products N 2018 24 23-24 ppb 0 N 2018 53 45.4 - 53 ppb 0 N 2019 2 .8 - 3 ppm 0 10 Ped Contaminants	N 2019 .663 No Range ppm 4 4 End adds factor N 2019 .5 0 ppb 0 AL=15 Co N 2018* .12 No Range ppm 10 10 Ru September September			

* Most recent sample. No sample required for 2019.

** Fluoride level is routinely adjusted to the MS State Dept of Health's recommended level of 0.6 - 1.2 mg/l.

We are required to monitor your drinking water for specific constituents on a monthly basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. In an effort to ensure systems complete all monitoring requirements, MSDH now notifies systems of any missing samples prior to the end of the compliance period.

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. Our water system 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 from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead. The Mississippi State Department of Health Public Health Laboratory offers lead testing. Please contact 601.576.7582 if you wish to have your water tested.

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", our water system is required to report certain results pertaining to fluoridation of our water system. The number of months in the previous calendar year in which average fluoride sample results were within the optimal range of 0.6-1.2 ppm was 12. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 100%.

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", City of Vicksburg required to report certain results pertaining to fluoridation of our water system. The number of months in the previous calendar year in which average fluoride sample results were within the optimal range of 0.6-1.2 ppm was 12. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 100%.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 Environmental Protection Agency's Safe Drinking Water Hotline at 1.800.426.4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons 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 risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline 1.800.426.4791.

The Culkin Water District works around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.