# **Washington Water Authority** 2020 Annual Drinking Water Quality Report

We're pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our goal is to provide you with a safe and dependable supply of drinking water, and we want you to understand, and be involved in, the efforts we make to continually improve the water treatment process and protect our water resources.

#### Where Does Our Drinking Water Come From?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. We purchase treated surface water from Benton-Washington Regional Public Water Authority and the City of West Fork. Benton-Washington Regional's source is Beaver Lake. The City of West Fork purchases water from the City of Fayetteville which uses treated surface water from Beaver Water District. Beaver Water District's source is also Beaver Lake.

## How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed Source Water Vulnerability Assessments for Benton - Washington Regional Public Water Authority and Beaver Water District. The assessments summarize the potential for contamination of our source of drinking water and can be used as a basis for developing source water protection plans. Based on the various criteria of the assessments, our water source has been determined to have a low susceptibility to contamination. You may request summaries of the Source Water Vulnerability Assessments from our office.

#### What Contaminants Can Be In Our Drinking Water?

As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: <u>Microbial contaminants</u> such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; <u>Inorganic contaminants</u> such as salts and metals, which can be naturally occurring or result from urban stormwater 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 agriculture, urban stormwater runoff, and residential uses; <u>Organic chemical contaminants</u> including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; <u>Radioactive contaminants</u> which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to assure tap water is safe to drink, EPA has regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

#### Am I at Risk?

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. However, 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 small amounts of contamination. These people should seek advice about drinking water from their health care providers. 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. In addition, EPA/CDC guidelines on appropriate means to lessen the risk of infection by microbiological contaminants are also available from the Safe Drinking Water Hotline.

#### Lead and Drinking Water

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 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 <a href="http://www.epa.gov/safewater/lead">http://www.epa.gov/safewater/lead</a>.

#### How Can I Learn More About Our Drinking Water?

If you have any questions about this report or concerning your water utility, please contact Josh Moore, General Manager, at 479-267-2111. 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 last Monday of each month at 10:00 AM at 3685 East Heritage Parkway in Prairie Grove.

## **TEST RESULTS**

We, Benton-Washington Regional Public Water Authority, Fayetteville Waterworks, and Beaver Water District routinely monitor for constituents in your drinking water according to Federal and State laws. The test results table shows the results of our monitoring for the period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2020. In the table you might find terms and abbreviations you are not 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.

**Maximum Contaminant Level (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 (MCLG)** – unenforceable public health goal; 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 for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (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.

**NA** – not applicable

**Nephelometric Turbidity Unit (NTU)** – a unit of measurement for the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**Parts per billion (ppb)** - a unit of measurement for detected levels of contaminants in drinking water. One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

**Parts per million (ppm)** – a unit of measurement for detected levels of contaminants in drinking water. One part per million corresponds to one minute in two years or a single penny in \$10,000.

						Т	URBID	ΙΤΥ						
Contaminant Violation Y/N					Uni	it		I <b>CLG</b> lealth Goal)		MCL			Major Sources in Drinking Water	
			Level Detected		011		(Public F			(Al	(Allowable Level)			
Turbidity (Benton- Washington PWA)	Ν	result: Lowest sample		st yearly sample : 0.27 It monthly % of es meeting the ity limit: 100%						Any measurement in excess of 1 NTU constitutes a violation				
Turbidity (Beaver Water District)	N	Hig res Lo sai tur	jhest y sult: 0. west m nples i bidity	early sample 16 onthly % of meeting the limit: 100%	NT			NA		A value less than 95% samples meeting the limit of 0.3 NTU, constitutes a violation		on		
											Nashingtor	n and E	Beaver Water District	
because it	is a good	d indicat	or of t	he effectivene										
				I	NOR	GAN]	IC CON	TAMIN		s				
	Contaminant Vio		-	Level Detected		Unit	(Pub	MCLG (Public Health Goal		) (Allov	MCL I lowable Level)		Major Sources in Drinking Water	
Fluoride (Beaver Water Dist	trict) N		Rar	erage: 0.73 nge: 0.66 - 0.8	34 ppm		,	4		4		Erosion of natural deposits; water additive which promotes strong teeth		
Fluoride (Benton Washington Regional)		Ν		Average: 0.69 Range: 0.50 – 0.9		ррп	1							
Nitrate [as Nitro (Beaver Water Dist				Average: 0.93 Range: 0.58 - 1.12									Runoff from fertilizer use; leaching from septic tanks,	
Nitrate [as Nitrogen] (Benton Washington Regional)		Ν	Average: 0.45 Range: 0 - 0.90		ppm		1	10				sewa	sewage; erosion of natural deposits	
riegionary					тот	AL O	RGANI	C CARE	BON			1		
removal re	equireme or the for	ents set	by US	SEPA were m infection by-p	C) re iet. 7 produ	emov FOC icts.	al was has no These	routine health	ely n n effe oduct	ects. He s includ	owever, To	otal Oi	ur suppliers, and all TOC ganic Carbon provides a es (THMs) and Haloacetic	
		Viel	ation	R	EGU		1510 0.51				MRDL		Major Sources in Drinking	
Disinfect	ant	Violatio Y/N		n Level Detect		I	Unit	(Public Health		-			Water	
Chlorine (Washington Water Authorit			N	Average: 0.7 Range:0.28 -	- 1.27		ppm		4		4		Water additive used to control microbes	
	·							P MON		-	<u>r</u>			
Contaminants Tap Sa				Action Level		<sup>1</sup> Percentile Result		Unit	I	Action Levels	-	Major Sources in Drinking Water		
Lead			0		.001			ppm		0.015		Corrosion from household plumbing		
Copper		-	0		.129		-	ppm	L .				on of natural deposits	
													or lead and copper at the monitoring period is in	

	BY-	PRODUCT	S OF DRI	NKING WATER DISINFE	CTION					
Contaminant	Violation Y/N			Detected	Unit	MCLG (Public Health Goal)	MCL (Allowable Level)			
HAA5 [Haloacetic Acids] (Washington Water Authority)	Ν	Highest Running Annual Average: 43 Range: 18.9 – 57.8				0	60			
TTHM [Total Trihalomethanes] (Washington Water Authority)	Ν		unning Anı 1.3 – <b>80.9</b>	nual Average: 64	ppb	NA	80			
Chlorite (Benton-Washington PWA)	N		24.00 - 72		ppb	800	1000			
Chlorite (Beaver Water District)	Ν	Highest Annual Quarterly Average: 291.6 Range: 130 - 411								
<ul> <li>While only the upper end Trihalomethanes in excess systems, and may have as</li> </ul>	s of the MCL o	over many	years may							
systems, and may have an increased risk of getting cancer UNREGULATED CONTAMINANTS										
Contaminant	Level Det	ected	Unit	MCLG (Public Health Goal)		Major Sources in Drinking Water				
Chloroform (Beaver Water District)	11.0		ppb	70						
Chloroform (Benton-Washington PWA)	21.6		660		- By-pr	By-product of drinking water disinfection				
Bromodichloromethane (Beaver Water District)	2.23		ppb	0	Dy pi					
Bromodichloromethane (Benton-Washington PWA)	3.70									
<ul> <li>Unregulated contamination</li> </ul>							The purpose of			
unregulated contaminan										
water and whether future regulation is warranted. MCLs (Maximum Contaminant Levels) and MCLGs (Maximum Contaminant Level Goals) have not been established for all unregulated contaminants.										
					iunts.					
	(1	-		minant Monitoring Ru	le 4)					
				Metals						
Contaminant			Unit	Major Sources in Drinking Water						
IAA5 (UCMR4)	Average: 28		ppb							
Fayetteville Water Dept)	Range: 21.5	0 - 37.00								
IAA6Br (UCMR4) Fayetteville Water Dept)	Average: 2.50 Range: 2.038 - 2.963		ppb	By-produc	t of drinking water disinfection					
IAA9 (UCMR4)	Average: 30									
Fayetteville Water Dept)	Range: 23.5		ppb							
The Objective of the UCMR health-based standards set regulatory actions to prote are present in their drinkin	program is to under the Sa ct public heal	o collect na afe Drinking	y Water Ac	t. Drinking water occurrer	ice inform	mation is used to sup	port future			

VIOLATIONS - Washington Water Authority								
TYPE: Monthly Operations	FROM:	TO:	CORRECTIVE ACTION:					
Failure to Submit Operational Evaluation Report (OEL)	02/01/2020	1 15/31/2020	Resumed submission of the report as required by state and federal regulations					