Compton Water Association 2015 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 water from Southwest Boone County Water Association whose source is one well that pumps from the Everton Formation Aquifer. Southwest Boone County Water Association also purchases treated water from Carroll - Boone Water District whose source is surface water from Beaver Lake.

How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed a Source Water Vulnerability Assessment for Southwest Boone County Water Association and Carroll - Boone Water District. summarize the potential for contamination of our sources of drinking water and can be used as a basis The assessments 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: Microbial contaminants 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; Pesticides and herbicides which may come from a variety of sources such as agriculture, urban stormwater 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 stormwater 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 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.

What is Cryptosporidium?

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. It lives and reproduces only with the host. In the environment, Cryptosporidium exists as a thick walled oocyst, containing four organisms. Monitoring by Carrol - Boone Water in 2015 indicated no presence of these organisms in their Beaver Lake water source. It is important to know that although filtration removes Cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at greater risk of developing life threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

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 http://www.epa.gov/safewater/lead.

How Can I Learn More About Our Drinking Water?

If you have any questions about this report or concerning your water utility, please contact Bobby Hudson, Operator, at 870-420-3930. 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. held on the second Tuesday of each month at 7:00 PM, in the Compton Community Building.

TEST RESULTS

We, Southwest Boone County Water Association, and Carroll – Boone 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 1st to December 31st, 2015. 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

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

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.

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

Contouring			OFORTOWE	CONTAMINANTS					
Contaminant	Violation Y/N	Level Detected	Unit	MCLG (Public Health Goal)	MCL	Major Sources in			
Total Coliform Bacteria (Compton Water Assn)	r Assn) Sampl		Present	0	(Allowable Level) 1 positive sample				
Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, warning of potential problems. per month the environment the environme									

Contaminant	Violation	T	Lovels		Т		OKB	IDITY MCLG						
	Y/N Level Detect			_	Unit	(Pu	iblic Health	Goal)	(A	MCL llowable i	evell	Major Sources in		
Turbidity (Carroll-Boone N Water District)		Highest yearly sar result: 0.09 Lowest monthly % samples meeting turbidity limit: 10		hlv % a	of	NTU		NA NA		(Allowable Level) Any measurement in excess of 1 NTU constitutes a violation A value less than 95%		ment ir L NTU violatio	n	
				t: 100%	0%					of samples meeting the limit of 0.3 NTU.		eting th	ne .	
indicator o	f the effec	tiven	it of the cl	Oudine r filtrat	SS O	f water	. Carr	oll-Boor	e Wate	r Distri	ct mon	tors tu	rbidity because it is a go	
				merae	IN	ORGAN	IC CO	NTAMI	IANTS					
Contamii	nant	V	iolation Y/N	Leve		tected	Unit	.	MCLG		M	CL.	Major Sources in	
Fluoride (Carroll-Boone Water District)		N Ave		Avera Range	erage: 0.43		ppm	(Public Heal		:h Goal) (Allo		le Level)	Drinking Water Erosion of natural depo water additive which	
litrate as Nitrogen] SW Boone Co. Wa	ter Assn)		N		0.18			+					Promotes strong teeth Runoff from fertilizer u	
litrate as Nitrogen1	te		N		0.19		ppm	m 10			10		leaching from septic tanks, sewage; erosio natural deposits	
				LEA	DA	ND COP	PPP 1	TAP MOI	ITTODT				Tracarar deposits	
Contamin	ant	N	umber of S	ites i	90 ^{tl}	" Percei	ntile	Unit						
ead (Compton Wa	iter Assn)		er Action L	evei		<0.003				n Leve			ources in Drinking Wate	
Opper (Compton	Water Assn)		0					ppm ppm		.015	Co	rrosion	from household plumbin	
the custome in 2016.	rs' taps.	redu The re	ced monito esults abov	oring s ve are	from	dule and our las	d requ st mor	uired to nitoring	sample period in	once e 1 2013	every the	ree ye	erosion of natural deposi ears for lead and coppe quired monitoring perio	
				1000										
and all TOC	removal	tal Or requi	ganic Cart rements se	oon (To	OC)	remova	l was	routinel	y monit	ored in	2015	by Car	roll-Boone Water Distri ver, Total Organic Carb	
haloacetic a	nedium fo cids (HAAs	r the	formation	of disi	infec	tion by	-prodi	ucts. Th	ese by-	produc	rrects. cts inclu	Howev Ide trih	ver, Total Organic Carb nalomethanes (THMs) a	
Disinfectant	Viola	tion	Γ			ULATE		INFECT	NTS					
lorine	Y/		Level D		d	Unit	(Public	MRDLG Health G	oal) (A	MRD		Ma	jor Sources in Drinking	
Average: 0.83 Range: 0.2 - 2		0.83 2 - 2.2	,	ppm		4			lowable Level) Water ad		Water dditive used to control			
			BY-PR	RODUC	TS C	F DRI	KING	WATER	DISTN)N	microl	bes	
Contam			Violation Y/N		Leve	l Detec	ted	Uni		N	ICLG		MCL	
A5 [Haloacetic	Acids]		N					+		(Public I	fealth Go	al)	(Allowable Level)	
mpton Water Ass IM [Total Triha	n) Iomethanes	1		- -		21.2		ppl			0		60	
mpton Water Assi	n)		N			40.4		ppl	,		NA		80	
				UI	NRE	GULATE	D CO	NTAMIN	ANTS					
Contamina	nt		Level Dete	ected		Uni	t	MC (Public He	LG	,	Majo	Source	es in Drinking Water	
		Average: 8.09 Range: 1.17 - 9.19		10				Li done i iculai Goa		'				
oroform			7.19	ppb			7	70						
roll-Boone Water modichloromet	District)	Avor												
Boone Co Water	Assn)	Rang	age: 2.40 e: 0.85 - 4	.07										
modichlorometh roll-Boone Water	nane		5.46			ppb	ı	C	0		By-products of drinking water disinfection			
omochlorometi	nane		ge: 1.0					+		-				
Boone Co Water Assn) Range: 0.70 - 1.63 omochloromethane oll-Boone Water District) 0.89		.63	ppb			60								
roll-Boone Water Unrequiated	District)	nto												
Unregulated unregulated	contamina	nt m	ire those Onitorina i	tor wh	nich	EPA h	as no	t establ	ished d	rinking	water	stand	ards. The purpose o	
drinking wate Contaminant	r and whe Level Goal	ther (s) hav	future regu ve not bee	ulation n estat	:		iii uei	cer minim	y the c	occurre	nce of	unreg Levels)	ards. The purpose o ulated contaminants ir and MCLGs (Maximum	
ATIONS - Co	ompton W	/ater	Associati						Jonitali	mants	<u></u>			
:: Bacteriolog	<u>jical Moni</u>	<u>torin</u>	g		ROM	1:		TO:		COP	RECTI	VE AC	TTON	
eded the Maxir	num Conta	amina	int Level							Adiu	sted th	e level	of disinfectant and	
CL) for Total Coliform bacteria					6/1/2015			6/30/2015		rocu	Adjusted the level of disinfectant and			

VIOLATIONS - Compton Water Association							
	FROM:	TO:	CORRECTIVE ACTION:				
Exceeded the Maximum Contaminant Level (MCL) for Total Coliform bacteria	6/1/2015	6/30/2015	Adjusted the level of disinfectant and resumed bacteriological monitoring as				
This institution is an oqual armed	·		required by state and federal regulations				

This institution is an equal opportunity provider and employer.

CCR 15 Compton Water Association (669)

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