# **Toad Suck Public Facility** 2011 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 Perryville Municipal Waterworks whose source is surface water from Cedar Lake.

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

The Arkansas Department of Health has completed a Source Water Vulnerability Assessment for Perryville Municipal Waterworks. The assessment summarizes the potential for contamination of our source of drinking water and can be used as a basis for developing a source water protection plan. Based on the various criteria of the assessment, our water source has been determined to have a low susceptibility to contamination. You may request a summary of the Source Water Vulnerability Assessment 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 available Safe exposure is from the 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 Robert Johnson, Manager, at 501-977-0453. We want our valued customers to be informed about their water utility. If you want to learn more about our water system, please attend one of our regularly scheduled meetings. They are held on the second Tuesday of each month at 6:00 PM at the Water Office in Morrilton.

### TEST RESULTS

We and Perryville Municipal Waterworks 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>, 2011. 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.

		MIC	ROBIO	LOGI	CAL CONTAMI	NAN	TS		
Contaminant	Violation Y/N	Level Detected		nit	<b>MCLG</b> (Public Health Goal)		MCL (Allowable Level)		Major Sources in Drinking Water
Total Coliform Bacteria (Toad Suck Public Facility)	N	1 Positive in November 1 Positive in December		esent	0		1 positive sau month	Naturally present in the environment	
	•			TUF	RBIDITY				•
Contaminant	Violation Y/N	Level Detected		nit	<b>MCLG</b> (Public Health Goal)		MCL (Allowable Level)		Major Sources in Drinking Water
Turbidity (Perryville Waterworks)	N	Highest yearly sample result: 0.20 Lowest monthly % of samples meeting the		TU	NA		Any measurement in excess of 1 NTU constitutes a violation A value less than 95%		Soil runoff
		turbidity limit: 100% ement of the clouding tiveness of their filtra	ess of v			terw		s a violation s it because it is	a good
indicator					CONTAMINAN	TS			
Contaminant	Violation Y/N	Level Detected	Unit		MCLG olic Health Goal)	_	MCL lowable Level)	Major Sources in Drinking Water	
Fluoride (Perryville Waterworks)	N	Average: 1.28 Range: 1.22 - 1.34	ppm		4	-	4	Erosion of natu water additive strong teeth	ral deposits; which promotes

Contaminant			Number of Sites over Action Level		90 <sup>th</sup> Percentile Result		Action Level		Major Sources in Drinking Water			
Lead (Toad Suck Public Facility)			1		0.008	ppm	0.015		Corrosion from household			
Copper (Toad Suck Public Facility)			0		<0.20		1.3		plumbing systems; erosion of natural deposits			
We are currently on a customers' taps. The 2012.			are from our	last mo	onitoring	period in 2						
						CARBON						
<ul> <li>The percentage of</li> </ul>												
requirements set b carbon provides a (THMs) and Haload	, medium	for the	e formation o									
(			,	ULATI	ED DISI	NFECTANT	S					
Disinfectant	Violati Y/N		Dn Level Detect		Unit	MRD (Public Hea			MRDL (Allowable Level)		Major Sources in Drinking Water	
Chlorine (Toad Suck Public Facility)	Ν		Average: 0.29 Range: 0.07 - 1.08			4			4	Water additive use to control microbes		
			PRODUCTS		INKING	WATER D	SINFEC	TION				
Contaminant Viola				ed		Init	MCLG (Public Health	Goal)	MCL (Allowable Level)			
HAA5 [Haloacetic Acids] Toad Suck Public Facility)		Ν	Highest Running 12 Mont Range: 2.3 – 15.3			Average: 12		opb	0		60	
ТТНМ			N Highest Running 12 Month Range: 58.7 - <b>92.4</b>			Average: 70 p		opb	NA		80	
<ul> <li>While only the up who drink water problems with th cancer.</li> </ul>	contai	ning tr	ihalometha neys, or cen	nes ir tral n	n excess ervous	s of the M	CL over and ma	many	years may an increa	expe sed ris	rience sk of getting	
Contaminant		Lev	Level Detected		nit	MCLG (Public He		n Goal)	Major Sources in Drinking Water			
Chloroform (Perryville Waterworks)	erworks) 31.6		31.6	ppb		70						
Bromodichloromethane (Perryville Waterworks)			4.12		pb		0			By-product of drinking water disinfection		
Dibromochloromethane Perryville Waterworks)					pb	60						
<ul> <li>Unregulated contain unregulated contain</li> </ul>	ninant ı		ing is to ass	ist EPA	in dete	rmining the		ence of	unregulated	d conta	aminants in	