Green Hill-Brooks Chapel Water 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 Monticello Water Department whose sources are six wells that pump from the Sparta Sand Aquifer.

How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed a Source Water Vulnerability Assessment for Monticello Water Department. The assessment summarizes the potential for contamination of our sources 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 sources have been determined to have a medium 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 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 Dennis White, Water Operator, at 870-723-3216. If you want to learn more, please attend our annual meeting held on February 25, 2013 at 7:00 PM at Green Hill United Methodist Church. Please call Mr. White for more information about the annual meeting.

TEST RESULTS

We and Monticello Water Department 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, 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

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.

		MICROBIO	LOGICAL	CONTAMINANTS			
Contaminant	Violation Y/N	Level Detected	Unit	MCLG (Public Health Goal)	MCL (Allowable Level)		Major Sources in Drinking Water
Total Coliform Bacteria (Green Hill-Brooks Chapel Water)	N	None	Present	0	1 positive sample per month		Naturally present in the environment
, ,	•	INORG	ANIC CON	TAMINANTS			
Contaminant	Violation Y/N	Level Detected	Unit	MCLG (Public Health Goal)			or Sources in nking Water
Fluoride (Monticello Water Dept)	Ν	Highest Annual Average: 1.07 Range: 0 - 4.60	ppm	4	4	deposits	of natural ; water additive omotes strong
containing tenderness children's t	fluoride in ex of the bones eeth, usually wn staining a	d of the range for flu ccess of the MCL over 5. Fluoride in drinking 7 in children less than and/or pitting of the	many ye water at nine yea	ars could get bon half the MCL or i rs old. Mottling,	ne disease, in more may cau also known a	cluding use mott is dental	pain and ling of fluorosis, may
Nitrate [as Nitrogen] (Monticello Water Dept)	Ν	0.21	ppm	1	1	leaching	rom fertilizer use; from septic ewage; erosion of deposits

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Contaminant	Number of Sites over Action Level		90 th Percentile Result		•	Unit	Action I	.evel	Major Sources in Drinking Water		
Lead (Green Hill-Brooks Chapel Water)	0		0.005			ppm	0.01	-		osion from household bing systems; erosion of	
Copper (Green Hill-Brooks Chapel Water)	0		0.27			ppm	1.3	r	natural deposits		
										and copper at our ed monitoring period	
			RE	GULATI	ED DIS	SINFECTA	NTS				
Disinfectant	Violation Y/N	Level Dete	cted	Unit	(Publ	MRDLG ic Health Goa		RDL ble Level)			
Chlorine (Green Hill-Brooks Chapel Water)	Ν	Average: 0.2 Range: 0.2	- 0.8	ppm		4		4		ter additive used to htrol microbes	
		BY-PRO	DUCTS	OF DR	INKIN	G WATER	DISINFECT	ION			
Contaminant		Violation Y/N	Level Detec		ted	Unit		MCLG (Public Health Goal)		MCL (Allowable Level)	
HAA5 [Haloacetic Acids] (Green Hill-Brooks Chapel Water		NA	3.0			ppb		0		60	
TTHM [Total Trihalomethanes] (Green Hill-Brooks Chapel Water)		NA	0.0			ppb		NA		80	
 and Haloacetic quarter of 201 The levels deta upcoming Stag is to increase average at spe goes into effect 	Acids in ou 0. Our nex ected for HA ge 2 Disinfer public health ecific locatio ct some loca estigative sa	IT distribution t monitoring AA5 & TTHM ctants and D h protection ns and not ju lities will hav amples to wo	n syste period are fro isinfect by hav by hav ust ave ve trou ork on n are not	m The l is in 20 m inves tion Byp ing us r raging ble mee reducing applica	e result 013. stigativ produc meet t the en eting it g HAAS able to	ts above an re (or preli ts Rule (St he HHA5 a tire systen t. To assis ts and TTH investigati	re from our minary) mo rage 2 DBPR nd TTHM all n. This is a t t us in meet IMs through ive monitori	last moni nitoring p .). The pu owable le cougher st cing these out the di	toring po erforme urpose o vels (MC tandard e stricter	I Trihalomethanes eriod in the spring d under the of the Stage 2 DBPR CLS) as an annual and when the Rule requirements we on system before ne	
			UNR	REGULA	TED C	ONTAMIN	-	-			
		Level Dete	etected		Unit		MCLG Health Goal)	Major Sources in Drinking Wate			
Chloroform (Monticello Water Dept)		27.0			ppb		70				
Dibromochloromethane (Monticello Water Dept)		2.94			ppb		60 By-pr			products of drinking water disinfection	
Bromodichloromethane (Monticello Water Dept)		9.62			ppb		0				
	ontaminant and wheth	monitoring is er future reg	s to ass ulation	sist EPA 1 is warr	in det ranted	ermining t . MCLs (M	he occurren aximum Cor	ice of unr ntaminant	egulatec t Levels)		

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