2018 City of Athens Annual Water Quality Report



The City of Athens is pleased to present the 2018 Annual Water Quality Report. Our goal is to meet the water usage needs of our

customers by providing the highest quality water available. Public participation regarding the water system is offered through attending public meetings, calling 903.675.5131, emailing utilities@athenstx.gov, or visiting www.athenstx.gov. Specific questions or concerns about water quality may be directed to 903.675.6667.

Our Drinking Water Meets or Exceeds All Federal (EPA) Drinking Water Requirements

This report is a summary of water quality provided to our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented in the following pages. We hope this information helps you become more knowledgeable about what's in your drinking water.

Where Do We Get Our Drinking Water?

The City of Athens (PWS #1070005) water system distributed 693,072,000 gallons of water during 2018. The Athens Municipal Water Authority (AMWA) (PWS #1070252) provided 290,969,000 gallons of treated surface water and 236,225,000 gallons of ground water. An additional 165,878,000 gallons of ground water was produced by water wells operated by the City of Athens to supplement the total annual consumption. Water loss, which includes water not accounted for through metering and/or estimation, totaled 93,597,228 gallons for 2018 Athens water includes surface water, obtained from Lake Athens, and ground water produced from water wells. The TCEQ Source Water Susceptibility report describes the susceptibility and types of constituents that may come into contact with the drinking water source based on human activities and natural conditions. Please call 903.677.6666 for more information on source water assessments and protection efforts of our system.

Secondary Constituents

Constituents, such as calcium, sodium, or iron, commonly found in drinking water at varying concentration, can influence the taste, color, and odor of water. The State of Texas regulates these taste and odor constituents, called secondary constituents, but does not consider them cause for health concern. The secondary constituents are not presented in this annual report, however, can be performed as needed in response to a water quality concern.

En Español

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. 903.675.5131 para hablar con

All Drinking Water May Contain Contaminants and Cryptosporidium

When drinking water meets federal standards there may not be any health-based benefits to purchasing bottled water or point-of-use devices. 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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 800.426.4791.

Cryptosporidium is a microscopic intestinal parasite found naturally in the environment. Although filtration removes most Cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. Athens regularly collects treated and untreated water samples to test for this pathogen. Results of those tests did not indicate the presence of cryptosporidium during 2018. Not everyone exposed to the organism becomes ill. Individuals with healthy immune systems usually overcome the effects within a few weeks. However, immune-compromised people are at a greater risk of developing life-threatening illness. We encourage at risk individuals to consult their doctor regarding appropriate precautions to prevent infection. To request more information on Cryptosporidium, please call Safe Drinking Water Hotline EPA's

Definitions / Abbreviations

Action Level (AL) - The concentration of a contaminant that, if reached, triggers treatment or other requirements that a water system must follow.

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

NTU - Nephelometric Turbidity Units

MFL - million fibers per liter (a measure of asbestos)

pCi/L - picocuries per liter (a measure of radioactivity)

 \mathbf{ppm} - parts per million, or milligrams per liter (mg/L)

ppb - parts per billion, or micrograms per liter $(\mu g/L)$

ppt - parts per trillion, or nanograms per liter ppq - parts per quadrillion, or picograms per liter

Water Quality Monitoring Results

The table on this page includes a list all of federally regulated or monitored constituents that have been found in your drinking water. The U.S. EPA requires water systems to test up to 90 constituents. As the table illustrate, the drinking water provided to Athens customers met or exceeded all established standards. The table identifies contaminants detected during 2018, or the most recent testing done in accordance with regulations, including the maximum amounts allowed by state and federal regulations.

Contaminants that may be present in source water are introduced by a variety of means. Contaminants include micro-organisms, inorganic compounds, pesticides, herbicides, organic chemicals and radioactive contaminants. Introduction is typically the result of storm water runoff, and can include such sewage sources as treatment plants, septic livestock systems, operations/wildlife, or naturally forming formations. Other human activity sources include by-products industrial of petroleum processes, production, gas stations, and mining operations.

Lead and	Copper
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Elevated levels of lead can cause serious health problems, especially for pregnant women and young children, if present in drinking water. Lead in drinking water is primarily introduced from materials and components associated with service lines and home plumbing. This water supply is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. Lead and copper concentrations can become elevated as the water remains in contact with plumbing for long periods. You can

		EIECI	ED INORGA Average	Kangeot	AMINA	115	
Contaminant	Water District	Date Sampled	Amount Detected	Detected Levels	MCL	MCLG	Source of Contaminant
Barium (mg/l)	City of Athens AMWA	2018 2018	0.0827 0.063	.07880867 0.063	2.0	2.0	Erosion of natural deposits; discharge of drillin wastes or metal refineries.
Fluoride (mg/l)	City of Athens AMWA	2018 2018	0.109 0.07	0.106113 0.07	4.0	4.0	Water additive to promote strong teeth; erosion of natural deposits.
tunian (mg y	City of Athens	2018	0.07125	.04410984			Runoff from fertilizer use; leaching from septi
Vitrate (mg/l)	AMWA	2018	0.051	0.051	10.0	10.0	tanks, sewage, erosion of natural deposits.
aluminum (mg/l)	AMWA	2018	0.018	0.018	0.2	0.2	Coagulation chemical added to remove turbid from raw water
Vitrite (mg/l)	AMWA	2018	0.189	0.189	1.0	1.0	Runoff from fertilizer use; leaching from septi tanks, sewage, erosion of natural deposits.
	DI	ETECTE	D RADIOAC	CTIVE CON	TAMINA	NTS	
Combined Radium	City of Athens	2018	1.5	1.5	5.0	0.0	Erosion of natural deposits.
226 & 228) (pCi/L)	200 7 150 200 100	DIG	INFECTIO	U DV DD OD	HOTO		
	er. e.d.	0.00	INFECTIO		UCIS		D 1 4 CICIC 1 1 1 1 C C
otal Trihalomethanes (pph)	City of Athens AMWA	2018 2018	29.5 23.3	6.63 – 52.8 20.3 – 49.8	80.0	0.0	By-product of drinking water disinfection
otal Haloacetic Acids (ppb)	City of Athens AMWA	2018 2018	22.4 17.3	3.4 - 39.7 13.7 - 34.2	60.0	0.0	By-product of drinking water disinfection
	M/	XIMUV	I RESIDUAL	DISINFEC	TANT L	EVEL	
	Water	Date		Maximum	Minimum		
Contaminant	District	Sampled	Average Level	Level	Level	MRDL	MRDLG
otal Chloramine Residual (ppm)	City of Athens AMWA	2018 2018	1.7 3.4	4.1 4.3	.5 2.0	4.0 4.0	<4.0
	Total		Positive E. C	Coli or Fecal	Highest No	umber of	
	Coliform		Coliform	Samples	Positive S	Samples	
otal Coliform Bacteria	MCL	Violation					Source of Contaminant
ICLG: 0	1	NO	()	1		Naturally present in the environment
G-st-st-st-	Water District	Date Sampled	90th Percentile Values	Sites Exceeding Action Level	Mer		Comment Control on the
Contaminant					MCL	Service Control	Source of Contaminant Corrosion of household plumbing systems
cad (pph)	City of Athens	2018	0.00359 0.1225	0.0	15.0		Corrosion of household plumbing systems
Copper (mg/l)	AMWA	2018	0.0052	0.0	1.3		
	UNI	REGULA	TED DISIN	FECTION E	3Y-PROI	OUCTS	
Contaminant	Water District	Date Sampled	Average Level	Maximum Level	Minimum Level	:	Source of Contaminant
Chloroform	City of Athens AMWA	2018	21.1 22.7	36.8 35.0	4.96 11.5		By-product of drinking water disinfection
	City of Athens	2018	7.21	12.9	1.67		By-product of drinking water disinfection
Bromodichloromethane Unregulated contaminant moni	AMWA toning is conducted	198600	8.1 PA determine who	12.4 ere certain parame	5.4 ters occur, an	id whether	those contaminants need to be monitored.
				1	,		
Turbidity		Water District	Level Detected	Limit	Violation		Source of Contaminant
Highest Single Measurement		AMWA	0.39	1.0	N		Soil Runoff
owest Monthly % of Samples Meet	ing I imite	100%	100	0.3	N	988888888	Soil Runoff

RECHI ATED CHARACTERISTICS

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 by visiting www.epa.gov/safewater/lead.