MAYOR BRIAN PETERSEN

CITY ADMINISTRATOR SHIRLEY D HUGHES

> TREASURER LISA SMITH

CITY COUNCIL Chuck Powell Chris Carroll Brad Dover Josh Harrison Archie Newberry, Jr Lavant Padgett

## **CITY OF LIBERTY**



206 West Front Street • P.O. Box 716 Liberty, South Carolina 29657 Telephone: 864-843-3177 Fax: 864-843-9400 POLICE CHIEF Adam Gilstrap

PUBLIC WORKS/WATER Tim Moore

> RECREATION Tony Boiter

June 18, 2018

SC DHEC Attention Megan Johnson: 2600 BULL ST COLUMBIA, SC 29201 Fax: #803-898-3795

The City of Liberty Water Department

Liberty water Department has made its customers aware of the 2017 CCR Report by posting in Pickens County Courier, City Web Page, noted on Monthly water bills and the report is available and posted in City Hall bulletin board.

Thank You,

Public Works City of Liberty

Dlous Turne

This is Distribution Certification Letter For the Liberty Water System #3910003

## Annual Drinking Water Quality Report City of Liberty System #3910003

We're pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. We buy our Water from Greenville Atkins Plant on Lake Keowee.

I am pleased to report that our drinking water is safe and meets federal and state requirements. If you have any questions about this report or concerning your water utility, please contact Public Works at 864-843-3177 option#2. 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 second Monday of each month at 6:00 PM at City Hall, 206 West Front Street, Liberty, SC. Or, stop by City Hall at any time.

The City of Liberty routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2017. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily pose a health risk.

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND)-laboratory analysis indicates that the constituent is not present.

Parts per million (ppm) or Milligrams per liter (mg/l)-one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter-one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

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

Action Level – is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique (TT) – (mandatory language) A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminant Level-(mandatory language) The "Maximum Allowed" (MCL) is 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-(mandatory language) The "Goal" (MCLG) is the level of a contaminant in drinking water below which there is no know or expected risk to health. MCLGs allow for a margin of safety.

(3910003 LIBERTY CITY OF (PURCHASE FROM GREENVILLE WTR AND EASLEY CENTRAL)

CONTANIMAN T			GOAL	HIGHEST LEVELALLOWE D (MCL)		VIOLATIO		POSSIBLE SOURCE
Copper	1.3	0.038	1.3	0	PPM	N	2015	Erosion of natural deposits: Learching from wood preservatives: Corrosion of household plumbing.

UNIT	MCL	(MCLG)	RANGE	LRAA	YEAR	POSSIBLE SOURCE
ppb	80	0	6 -10	9.5	2017	By-products of disinfection
nnh	60	0	7.4.15	13.3	2017	By-products of disinfection
	ppb	ppb 80	ppb 80 0	(Medd) RANGE	ppb 80 0 6 -10 9.5	ppb 80 0 6 -10 9.5 2017

## NEW LEAD AND COPPER LANGUAGE REQUIRED

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. City of Liberty is 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 you drinking 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>.

In 2017 the City of Liberty Water System did not have any violations for exceeding MCL's for total coliform.

Coliforms are naturally present in the environment and not a health threat in itself.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. 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. 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.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a million chance of having the described health effect.

Nitrates: As a precaution we always notify physicians and health care providers in this area if there is ever a higher than normal level of nitrates in the water supply.

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 infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Please call our office if you have questions.

	mining operations					
	Some nome water treatment inters	UN	GN	0.10	mdd	Silver
	Drinking water additive	8	ND ND	0.05 - 0.20	mdd	Aluminum
	Crincing Water additive	4.4	34-55	250	mdd	Sulfate
	Cristing Water additive	2	No	Lri	mdd	Zinc
	SOILLEUNGH	; <u>u</u>	20 - 46	500	mdd	Solids (Total Dissolved)
	Controlled at treatment plant	7.6	7.0 - 8.7	6.5-8.5	SU	P.F.
	Soffrundit	N	ND	50	ppb	Manganese
	Soil runoff, pape material	8	ND	300	ddd	Iron
	Naturally occurring	N	ND - 5	15	color	Color
	Soil runott	4.6	3,4 - 6.0	250	ppm	Chloride
	Passible Sources	Average	Range	MCL	Units	
						HANGLE PANAYER SECONDARY STANDA
č	COMPAGN OF WORKSHOP PROFITERING	c	0.051	L	ppm	Copper - Customer's plumbing
5				. 1	neta	Cead - Customer & binuming
NO	Corresion of household plumbing	0	0.0	15	1	Data is from Summer 2015
Violation	Possible Sources	Sample Sites Exceeding Action Level	90th Percentile Value	Action Level (AL)	Units	
	conceins they particles					A STATE OF THE PROPERTY OF THE
3	the treatment process is		Average = 0.15	NA	NTU-	Distribution System
5 6	clarity and a good indicator that	NOT THOSE	Maximum = 0.09; Average = 0.05	<0.3	NTU	Adkins Plant
Š	Tubbity is a measure of water	Soll runoff	Maximum = 0.07; Average = 0.04	<0.3	NTU	Stovall Plant
		:	100% of plant samples are below MCL	95% of samples		Turbidity
į	maiwaste	human and anknot waste	C.OC 29 MALHINIUM	Less man 3%	% positive per month	Total Coliform
Š		Common in the		10000	CIRCO	
Violation	T.	Possible Sources	Results	DM	Iloits	
						MERCHANISMENT OF THE PROPERTY

MRDL	TOC (Total Organic Carbon) Stovall Plant (samples collected monthly) Adkins Plant (samples collected monthly) TT	Total Haloacetic Acids ppb 60	ORGANIC COMPOUNDS  Total Trihalomethanes ppb 80	Nitrate/Nitrite (as nitrogen) ppm 10 Stovall Plant (DHEC Data) Adkins Plant (DHEC Data) Distribution System (GW Data)	INORGANIC COMPOUNDS  Fluoride ppm 4  Stovall Plant (DHEC Data)  Adkins Plant (DHEC Data)  Prescription System (GW Data)	Parameter Unit MCL	A STATE MORNAVOTO VEGOVALE BELVIA SNIMIHO XVVAINA
L MRDLG	N/A A/A	0	0	10	4	MCLG	
	Percent Removal 29% (35% required) 17% (35% required)	6.1 - 19.8	5.1 - 16.9	NA NA 0.03-0.27	NA NA 0.43-0.79	Range	
	Range 13 - 44% 1 - 38%	14.9	LRAA 11.8	<0.020 0.054 Avg. = 0.08	0.52 0.62 Avg. = 0.64	Highest Level Detected	
	Occurs naturally in the environment	By-products of disinfection	By-products of disinfection	Erosion of natural deposits; fertilizer runoff, By-products of nitrification	Drinking water additive Fluoride added during treatment to prevent tooth decay	Possible Sources	
in compliance	NO NO Due to low raw water 10C levels, Addins and Stovall plants are	NO	NO	NO O	N N N	Violation	

## HINISHED WANTER ADDINIONALIPARAMETERS

Total Phosphate	Free Ammonia	Total Ammonia	Potassium	Sodium	Magnesium	Calcium	Hardness (as CaCO3)	Parameter
ppm	ppm	ppm	ppm	mdd	mqq	ppm	ppm	Units
0.49 - 1.17	0.02 - 0.28	0.35 - 0.75	0.60 - 0.83	5.4 - 8.5	0.35 - 0.61	0.8 - 1.5	3.0 - 6.0	Range
0.91	0.07	0.53	0.71	7.1	0.47	1.1	4.6	Average

# of Samples # of Analyses Miles of Pipeline

Crypto & Giardia

0 Cyst found in 2017.

> 29,000 samples > 60,000 tests > 2,900 miles of pipeline

Note: Does not include fire lines and hydrant leads.