

H2...OH REALLY?!



2018 Water Quality Report - Columbia County Water Utility

WATER REPORT

Is Columbia County water really safe? Why wonder? This past year Columbia County Water Utility tested the drinking water over 140,000 times in 2018 and is proud to inform our customers their drinking water meets or exceeds the EPA (Environmental Protection Agency) and EPD (Environmental Protection Department) guidelines.

This report includes data on the quality of your drinking water from January 1, 2018 through December 31, 2018. Other topics covered in this report include source water information, numerical values of detected finished water quality parameters, health facts, and term definitions.



HEALTH FACTS

For health reasons, the EPA has prescribed regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health. 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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

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 microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).



CONTAMINANTS THAT MAY BE PRESENT IN SOURCE WATER INCLUDE THE FOLLOWING:

- Microbial contaminants (e.g., viruses and bacteria) that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wild-life;
- Inorganic contaminants (e.g., salts and metals) which can be naturally occurring or result from urban storm run-off, industrial or domestic waste discharges, oil and gas production, mining, or farming;
 - Pesticides and herbicides which may come from a variety of sources such as agriculture, urban storm water run-off, and residential uses;
- Organic chemical contaminants including synthetic and volatile organic chemicals which are by-products of industrial processes, petroleum production and can also come from gas stations, urban storm water run-off, and septic systems;
- Radioactive contaminants which can be naturally occurring or be the result of oil and gas production and mining activities.



LEAD IN 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. Columbia County Water Utility 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 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>.

WATER SOURCES

The sources of drinking water (both tap and bottled) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material. It can also pick up substances resulting from the presence of animals or from human activity. Columbia County currently withdraws up to 45,000,000 gallons a day of surface water from the Savannah River to the Jim Blanchard Sr. Water Treatment Facility on Point Comfort Road. An additional 8,000,000 gallons of surface water could be withdrawn from the Clarks Hill Reservoir and treated at the Clarks Hill Water Treatment Facility on Highway 221. Combined, the Water Utility is able to treat up to 53,000,000 gallons a day to help meet the needs of our customers.

SOURCE WATER ASSESSMENT

Columbia County Water Utility completed a Source Water Assessment study in April of 2002. This assessment identifies potential pollutant sources that could contaminate the water supply. In the ranking of High, Medium, and Low for potential pollutants, our water supply was ranked Low at both the Jim Blanchard Water Treatment Plant and the Clarks Hill Water Treatment Plant. This assessment is available to the public. If you would like to review or purchase a copy, please call (706) 863-6928 during normal business hours.

Columbia County Water Utility (CCWU) Quality Data for 2018

Regulated Inorganic Substances Detected in Treated Water Entering Distribution System						
Substance (Units)	Maximum Level Allowed (MCL)	Maximum Level Goal (MCLG)	Average Detected in CCWU	Range Detected in CCWU	Sample Date	Did CCWU Meet Requirements
Fluoride (ppm)	4	4	0.66	0.42 - 0.9	2018	Yes
Nitrate (ppm)	10	10	< 0.2	< 0.2	2018	Yes
Turbidity (ntu)	TT	n/a	Maximum Detected = 0.29	n/a	2018	Yes
Turbidity (percent)	TT=percentage of samples < 0.3ntu	n/a	100%	n/a	2018	Yes

Regulated Inorganic Substances Detected in Treated Water at Tap						
Substance (Units)	Action Level Allowed (AL)	Maximum Level Goal (MCLG)	90th Percentile in CCWU	Number of sites above AL	Previous Sample Date	Did CCWU Meet Requirements
Copper (ppm)	1.3	1.3	0.12	0	2017	Yes
Lead (ppb)	15	0	2.4	0	2017	Yes

Regulated Organic Substances Detected in Treated Water at Tap						
Substance (Units)	Max Yearly Average Allowed (MCL)	Maximum Level (MCLG)	Max Yearly Site LRAA Detected in CCWU	Annual Range Detected in CCWU	Sample Date	Did CCWU Meet Requirements
Total Trihalomethanes (ppb)	80	n/a	50.5	14.1 - 91.1	2018	Yes
Total Halocetic Acids (ppb)	60	n/a	22.8	8.5 - 31	2018	Yes
Chlorine (ppm)	4	4	1.0	0.00 - 2.1	2018	Yes
Total Organic Carbon (ppm)	TT	n/a	1.4	1.2 - 1.7	2018	Yes

Regulated Bacteriological Sampling						
Substance (Units)	Number of Required Samples Collected Per Month	Maximum Level (MCL)	Number of Violations	Highest Monthly Percent	Sample Date	Did CCWU Meet Requirements
Total Coliforms (P/A)	100	5,000%	0	2%	2018	Yes
E-Coli (P/A)	100	MCLG =	0	1	2018	Yes

For Your Information						
Substance	Normal Range Detected in CCWU	Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.				
Sodium	9.50 ppm - 12.0 ppm	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.				
Alkalinity	15 ppm - 19 ppm on average	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.				
Hardness	1 - 40 ppm on average (Soft)	Maximum Residual Disinfectant Level (MRDL): Maximum disinfectant residual allowed in the distribution system.				
pH	6.5 - 8.5	Not Detected (nd): The amount of a material in a sample that was not detected during analytical testing.				
Iron	< 0.3 mg/L on average	Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.				

Columbia County Water Utility monitors for unregulated parameters in order to assist the EPA in determining where certain contaminants occur and whether additional regulations may be necessary.						
Below is a list of the Unregulated Contaminants that were detected in the Columbia County drinking water in 2013.						
Parameter	MCL	MCLG	CCWU - Ranges	CCWU - Average	Sample Date	Violation
Hexavalent Chromium (ug/L)	Not Regulated	Not Regulated	0.0 - 0.57	0.124	2013	MCL determination
Chlorate	Not Regulated	Not Regulated	49 - 210	104.562	2013	is currently pending
Chromium (ug/L)	Not Regulated	Not Regulated	0 - 0.32	0.038	2013	
Strontium (ug/L)	Not Regulated	Not Regulated	24 - 32	28.5	2013	
Vanadium (ug/L)	Not Regulated	Not Regulated	0 - 0.64	0.291	2013	

Please Call

For more information about the CCWU (ID # 0730000), please contact the Water Laboratory Manager, Rodney Silvey at (706) 868-3460 or the Treatment Operations Manager, John Maldonado at (706) 860-2587. The Public Works Committee (PWC) meets the 4th Tuesday of the month at 8:30 am in the Auditorium at the Evans Government Center. For the middle month of every quarter the PWC meets inside the Courthouse in Appling.

Columbia County Water Utility was involved in a study of our source water for Cryptosporidium. Cryptosporidium is a parasite that can cause intestinal disease.

People with weakened immune systems may develop serious, chronic, and sometimes fatal illness. This Study ended in September 2015 and showed no Cryptosporidium in our source waters.