

Water Quality Surpasses All Standards

Cherokee County Water and Sewerage Authority is proud of the fine drinking water it provides. This annual water quality report shows the source of our water, lists the results of our tests, and contains much important information about water and health.

We are proud to report that the water provided by Cherokee County Water and Sewerage Authority meets or exceeds established water quality standards.

We encourage public interest and participation in our community's decisions affecting drinking water. Regular Board Meetings are held the last Monday of each month at 110 Railroad Street. Even numbered months at 4:00 pm. Odd numbered months at 9:00 am. Please call for the holiday schedule. The public is welcome.

Find out more about Cherokee County Water and Sewerage Authority on the Internet at www.ccwsa.com.

Health Information

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 Environmental Protection Agency's Safe Drinking Water Hotline at (800) 426-4791.

The sources of drinking water (both tap water and bottled water) 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, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- A. Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- B. Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm-water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- C. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm-water runoff, and residential uses.
- D. Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm-water runoff, and septic systems.
- E. Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.
- F. 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. Cherokee County Water and Sewerage Authority 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 EPA's website: http://www.epa.gov/your-drinking-water/basic-information-about-lead-drinking-water

The Environmental Protection Agency (EPA) and Food and Drug Administration (FDA) are both responsible for the safety of drinking water. EPA regulates public drinking water (tap water), while FDA regulates bottled drinking water.

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 atrisk 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 (800) 426-4791.

Freese and Nicchols, Inc. was contracted by Cherokee County Water and Sewerage Authority in 2017 to complete a source water assessment itemizing potential sources of surface water pollution to your drinking water supply. Your drinking water is supplied from the Etowah River. A Source Water Assessment is a study and report that provides the following information:

- Identifies the area of land that contributes the raw water used for drinking water.
- Identifies potential sources of contamination to the drinking water supply.
- Provides an understanding of the drinking water supply's susceptibility to contamination.

The results of this assessment can be found on the Internet at http://ccwsa.com/water/source-water-assessment/ or you can request information by mail from CCWSA.

An Explanation of the Water Quality Data Table

The table shows the results of our water quality analyses. Every regulated contaminant that we detected in the water, even in the minutest traces, is listed here. This table contains the name of each substance, the highest level allowed by regulation (MCL), the ideal goals for public health, the amount detected, the usual sources of such contamination, footnotes explaining our findings, and a key to units of measurement.

Definitions of MCL and MCLG are important.

Maximum Contaminant Level or 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 or 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 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.

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

The data presented in this report is from the most recent testing done in accordance with regulations.

Key To Table: AL=Action Level; MCL=Maximum Contaminant Level; MCLG=Maximum Contaminant Level Goal; NTU=Nephelometric Turbidity Units; ppm=parts per million, or milligrams per liter (mg/l): one part per million is equivalent to one minute in 2 years or one penny in 10 thousand dollars; ppb=parts per billion: one part per billion is equivalent to one minute in 2,000 years or one penny in 10 million dollars; or micrograms per liter (μ g/l); TT=Treatment Technique; N/A=not applicable

WATER QUALITY TABLE MCL Contaminant Year Unit MCL/ Average/ Range Major Sources Violation MRDL tested G Result Inorganic Contaminants Copper 1 0-120 2015 ppb AL = 0 83 Corrosion of household plumbing systems; NO 1300 Erosion of Natural deposits; Leaching from 50 samples wood preservatives. Fluoride 2 2017 4 4 0.71 0.68-0.75 Erosion of natural deposits; Water additive NO ppm which promotes strong teeth; Discharge from fertilizer and aluminum factories Lead 3 2015 ppb AL=15 0 2.5 0-8.1 Corrosion of household plumbing systems NO 50 samples Nitrate / Nitrite 4 2017 10 10 0.29 N/A Runoff from fertilizer use; Leaching from NO ppm septic tanks; sewage; Erosion of natural deposits Chlorine 2017 N/A 0.2-1.7 Drinking water additive used for disinfection NO ppm Organic Contaminants TOC 2017 ppm TT N/A 1.1 0.7-1.1 Naturally present in the environment NO [Total Organic Carbons] Turbidity 5 2017 NTU TT=10 0.15 0.04-0.15 Soil runoff NO Volatile Organic TTHMs[Total 2017 80 0 53.4 15.6-58.9 By-product of drinking water NO ppb Trihalomerthamesl disinfection. HAAs [Haloacetic 2017 60 0 14.4-40.0 By-product of drinking water NO daa Acids disinfection.

Water Quality Data Table Footnotes: 1—No sites exceeded the Action Level (AL). 2—Fluoride is added to the drinking water to help in the prevention of dental cavities (caries) in children. 3—Of the 50 sites tested, none exceeded the Action Level (AL). 4—Nitrate and Nitrite are measured together. 5— Turbidity is the measure of the cloudiness of the water. We monitor turbidity because it is a good indicator of the effectiveness of our filtration system. The

turbidity rule requires that 95% or more of monthly samples must be below 0.30 NTU. During the reporting year, 100% of all samples taken to measure turbidity met water quality standards.

Compliance with other Drinking Water Regulations
Although we ran many tests, only the listed substances were found. They are all below the MCL required

Microbiological Contaminants	Sample Dates	MCL	MCLG	Level 1 Assessment Trigger 5	Level Detected	Likely Source	Violation
Total Coliform	Jan. 1, 2017— Dec. 31, 2017 (During the month of July - one sample out of 130 was total coliform was positive)	TT	TT	Exceeds 5.0% TC+ samples in a month	1% Total Coliform Positive (TC+)	Naturally Present in the environment	NO
E.coli	Jan. 1, 2017 — Dec. 31, 2017	One positive Sample ⁶	0	n/a	0 positive	Human or animal fecal waste	NO

5 - A PWS will receive an E.coli MCL violation when there is any combination of an EC+ sample result with a routine/repeat TC+ or EC+ sample result. 6 - A level 1 assessment is not a violation unless it is not completed. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. E.coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes.





Water Source

Water Source Cherokee County Water and Sewerage Authority is supplied by surface water from the Etowah River and is treated at Etowah River Water Treatment Facility, 583 Coker's Chapel Road. The Cherokee County Water and Sewerage Authority also purchases treated water from Cobb County – Marietta Water Authority and City of Woodstock.

Why is the Etowah Important?

The Upper Etowah River Watershed courses through five North Georgia counties:
Lumpkin, Dawson, Forsyth, Pickens,
Cherokee. The streams and rivers in the
Etowah watershed provide drinking water for residents and also support agriculture, industry and recreation. Responsible stewardship of this amazing resource is necessary to ensure its many values are protected FOREVER!

Cherokee County Water and Sewerage Authority (CCWSA) was honored with multiple awards from the Georgia Association of Water Professionals (GAWP) at its Spring Conference. Pam Burnett, GAWP Executive Director, attended the CCWSA April 2017 Board Meeting to present the awards in front of the CCWSA Board members and staff. The Rose Creek Water Reclamation Facility received the Water Reclamation Facility of the Year Award and a Platinum Award. The Platinum Award recognizes National Pollution Discharge Elimination System (NPDES) permit 100% compliance. The Fitzgerald Creek Reclamation Facility also received a Platinum Award. The Etowah River Water Treatment Plant received the Best Operated Water Plant of the Year Award and a Platinum Award. The water produced at the Etowah River Treatment Plant won the Georgia Water Taste Test for GAWP District 1. CCWSA's Ron Krnyaich won Top Operator of the Year for the GAWP District 1. "CCWSA provides outstanding water services to this community, and sets the bar high for other Georgia water systems who strive to accomplish this level of award-winning recognition." Pam Burnett, GAWP Executive Director. "It has been an impressive year for CCWSA, two plant-of-the-year awards, operator of the year, best tasting tap water, and Platinum awards all around'



Georgia's Streams Need Your Help. Source water quality is affected by the activities of individuals living in the watershed. Two programs that work to maintain source water quality, and in which individuals can be involved, are Georgia Adopt-A-Stream and Rivers Alive. Georgia Adopt-A-Stream is a volunteer water-quality monitoring program that teaches individuals how to monitor local waterways chemically, physically, and biologically. Rivers Alive sponsors annual volunteer cleanup events where individuals work to physically remove trash that has found its way into the waterway. To learn more visit http://www.georgiaadoptastream.com and http://www.riversalive.com or contact Lori Forrester, CCWSA Public Information Specialist, at 770-479-1813 Ext. 246. Resources, http://www.georgiaadoptastream.com/

For more information, call Cherokee County Water and Sewerage Authority at (770) 479-1813, x246, Lori Forrester, CCWSA Public Information Specialist. Water Quality Data for community water systems throughout the United States is available at www.waterdata.com. Learn more about the Cherokee County Water and Sewerage Authority water system at www.ccwsa.com.