

2005 Water Quality Report



Carroll County Water Authority

Who provides my water?

You are a customer of the Carroll County Water Authority. We take the responsibility of distributing water to you in a manner safe to our families and the environment very seriously. The Water Authority produces water and delivers water in its distribution system to more than 15,100 customer accounts, serving nearly 41,000 people in the Water Authority service area (with only 40 employees). The Water Authority is a self-funding agency, and receives no tax revenues from Carroll County government.

Where does my water come from?

In the year 2004, your drinking water came from one of the following municipal sources:

- The Snake Creek Water Treatment Plant has a 8.0 million gallons per day (mgd) capacity. Its water source is the Snake Creek Reservoir.
- The Abilene Well has a 0.53-mgd capacity.
- The Bethesda Church Road Well has a 0.08-mgd capacity.
- Heard County Water Authority (Heard County). The southern portion of the service area was briefly served by water from the Heard County water treatment plant, whose water source is Centralhatchee Creek, during periods of unusually high demand.
- Douglas-Douglasville Water and Sewer Authority (Douglas County). The northeastern portion of the service area was briefly served by water from Douglas County, whose water source is the Dog River Reservoir, during periods of unusually high demand.

In 2004, the average daily flow in the Water Authority system was 3.53-mgd, which decreased four percent from the 2003 average daily flow, due to the implementation of the statewide outdoor watering restrictions. The maximum daily flow in the system was 4.69-mgd, which is an increase of 23 percent from 2003.

In August of 2004, the Water Authority began producing water at the expanded Snake Creek Water Treatment Plant. This



Snake Creek Water Plant Complex

project doubled the capacity of the treatment plant from 4.0-mgd to 8.0-mgd for a total project cost of \$1.8 Million. The completion of this project provides the Water Authority with increased treatment capacity and increased redundancy to

ensure that the residents and businesses in Carroll County have a continuous supply of safe drinking water.

What is the Water Authority doing?

The Water Authority is committed to providing a safe and reliable water supply to residents and businesses in Carroll County. In January 2004, all water systems serving more than 10,000 people were required to comply with the Stage 1 Disinfectants and Disinfection By-Products (D/DBP) Rule. The D/DBP Rule requires that the concentration of trihalomethanes and haloacetic acids in the drinking water be below 0.080 mg/L and 0.060 mg/L, respectively. These two classes of compounds are by-products of disinfecting your drinking water with chlorine. The Water Authority is proud that their drinking water was well below the regulated limit with an average concentration of trihalomethanes of 0.029 mg/L and an average concentration of haloacetic acids of 0.014 mg/L.



Snake Creek Water Plant Treatment Unit

The D/DBP Rule also

requires drinking water suppliers to reduce the amount of naturally occurring organic material in the water through various treatment techniques. The Water Authority is proud that the quality of water in our reservoir is such that the Water Authority is currently exempt from any additional treatment requirements relating to the Rule.

Overall, the Water Authority's drinking water supply, treatment and distribution system consists of:

- The 650-acre Snake Creek Reservoir, which was filled to full pool in December 2002. The reservoir has an ultimate yield of 13.5-mgd. In 2004, the Water Authority's withdrawal permitted was increased to 8.0-mgd on a daily basis and 8.0-mgd on a monthly average basis.
- The Snake Creek Water Treatment Plant, which began treating raw water from the Snake Creek Reservoir in June 2002, was expanded to 8.0-mgd in 2004.
- The distribution system consists of approximately 500 miles of distribution piping and 10 water storage tanks. Each year, the Water Authority adds at least 7 miles of new distribution piping, to serve additional areas of the County, and to improve existing service.

Why this report?

The Carroll County Water Authority is committed to delivering to you, water that meets or exceeds all federal and state requirements. Federal regulations require all public water systems to provide annual reports to customers on the quality of their drinking water. Reports will be made available to you by July 1st of each year.

Is my water safe?

Yes. In fact, last year, the Water Authority and its suppliers conducted more than 8,000 tests for over 105 compounds. In these 8,000 tests, only 5 of those constituents were detected, and in water produced by the Carroll County Water Authority only 3 tests found levels higher than the United States Environmental Protection Agency (EPA) allows. As per the EPA guidelines, all testing that exceeded the action level were resampled and were not found in subsequent sampling. This report is a snapshot of last year's water quality, and lists only the 12 constituents that were present in the water supplies. Included are details about what your water contains, and how it compares to standards set by regulatory agencies.

Do I need to take special precautions?

The average person does not need to take special precautions. 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 infections. These people should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control (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).

Why are there contaminants?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some chemical contaminants. The EPA sets limits for the compounds that can be present in drinking water. When there are contaminants, the EPA has set treatment methods to reduce them to levels that protect human health. 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 (800-426-4791).



650-Acre Snake Creek Reservoir



CCWA Water Quality Data Table - 2004

The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Important Drinking Water Definitions:

MCLG: Maximum Contaminant Level 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.

MCL: Maximum Contaminant Level: 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.

DETECTED CONTAMINANTS SUMMARY

Contaminants (units)	MCLG	MCL	CCWA Value	Range Low High	Violation	Typical Source
Inorganic Contaminants						
Fluoride (ppm)	4	4	0.99	0.24 - 1.27	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate [measured as Nitrogen] (ppm)	10	10	< 0.2	0 - 0.22	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Turbidity (NTU)	0	TT	0.07	0.03 - 0.31	No	Soil runoff
Microbiological Contaminants						
Total Coliform (% of monthly positive samples)	0	5	0	0 - 2.5*	No	Naturally present in the environment
Unregulated Contaminants						
Bromodichloromethane (ppb)	MNR	MNR	6.9	0 - 12	No	
Chlorodibromomethane (ppb)	MNR	MNR	2.1	0 - 3.8	No	
Chloroform (ppb)	MNR	MNR	19.7	0 - 67	No	
Volatile Organic Contaminants						
Total Trihalomethanes [TTHM] (ppb)	0	80	28.8	0 - 82.2	No	By-product of drinking water chlorination
Haloacetic Acids [HAA] (ppb)	0	60	14.1	0 - 29.0	No	By-product of drinking water chlorination
Copper (ppm)	0	1.3	0.14	0 - 0.20	No	Erosion of natural deposits; Leaching
Lead (ppb)	0	15	3.4	0 - 6.1	No	Corrosion of household plumbing systems; Erosion of natural deposits

Units Description:

* Present in 1 of 40 samples in October 2004 by Carroll County Water Authority (but not found in subsequent testing)

NA: Not applicable

ND: Not detected

NR: Not reported

ppm: parts per million, or milligrams per liter (mg/l)

ppb: parts per billion, or micrograms per liter (µg/l)

ppt: parts per trillion, or nanograms per liter

ppq: parts per quadrillion, or picograms per liter

MNR: Monitoring not required, but recommended.

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

% of monthly positive samples: Percent of samples taken monthly that were positive

We welcome your questions. If you are interested in learning more about the Water Authority, and how we deliver safe water to your home, please feel free to contact us.

For more information contact:

Carroll County Water Authority
P.O. Box 739
1737 Bankhead Highway
Carrollton, GA 30117

Phone: (770) 832-1277
Fax: (770) 830-8853

Jim Baxley, Executive Director

Our Board meets the third Thursday of each month, at 10:00 a.m., at the County Commission meeting room.
Please feel free to participate in these meetings.

Learn more about the Carroll County Water Authority at: www.ccwageorgia.com

Carroll County Water Authority
P.O. Box 739
1737 Bankhead Highway
Carrollton, GA 30117

