

Brentwood Water Services



Water Quality Report

2014-15



Is my drinking water safe?

Yes, our water meets all of EPA's health standards. We have conducted numerous tests for over 57 contaminants that may be in drinking water. The state and EPA also require us to test our water and report the findings on a regular basis to ensure safety and quality standards. We continually strive to maintain and improve the water you drink because our families drink it, too.

What is the source of my water?

Your water comes from the Cumberland River through Metro Water Services and Harpeth Valley Utilities District. Our goal is to protect our water from contaminants and we work each day to meet that goal. A source water assessment has been conducted by the State Department of Environment and Conservation (TDEC). TDEC has rated our source as reasonably susceptible. Specific information about the Source Water Assessment Program (SWAP) can be viewed at www.tn.gov/environment/dws/dwassess.shtml or you may contact the Brentwood Water Department or TDEC at 1-888-891-TDEC (1-888-891-8332) to obtain copies of specific assessments.



Important Health Information

Drinking water may reasonably be expected to contain at least small amounts of some contaminants. Community water systems are required to disclose the detection of 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 (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 under-gone 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 not only their drinking water, but food preparation, personal hygiene, and precautions in handling infants and pets 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).

For more information about your drinking water, please call Chris Milton, Director, or Todd Spangler, Assistant Director, at 371-0080.

Este informe contiene información muy importante. Tradúscalo o hable con alguien que lo entienda bien.



WATER QUALITY DATA

The table below summarizes sampling and testing performed between January 1, 2014 and December 31, 2014. Some sampling is performed less than once per year, and in those instances, the date of the last sample is shown on the table.

CONTAMINANT	VIOLATION?	LEVEL DETECTED	RANGE OF DETECTIONS	DATE OF SAMPLE	UNIT OF MEASUREMENT	MCLG	MCL	LIKELY CONTAMINATION SOURCE
TOTAL COLIFORM BACTERIA	NO	0	0	30 samples/month		0	1 positive sample	Naturally present in the environment
TURBIDITY	NO	0.24 avg.	0.04-0.24	2014	NTU	N/A	TT	Soil runoff
TOTAL ORGANIC CARBON	NO	1.60 max**	1.2-1.6	2014	ppm	N/A	TT	Naturally present in the environment
<i>INORGANICS</i>								
CHLORINE	NO	1.87 avg.	0.3- 3.9	2014	ppm	MRDLG=4	MRDL = 4	Water additive to control microbes
FLUORIDE	NO	0.64 avg.	0.14-0.90	2014	ppm	4.0	4.0	Erosion of natural deposits; water additive promoting strong teeth
NITRATE	NO	0.49		10/22/14	ppm	10.0	10.0	Soil runoff from fertilizers
SODIUM	NO	12		9/10/14	ppm	N/A	N/A	Erosion of natural deposits; used in water treatment
<i>VOLATILES</i>								
TTHM-total tri-halomethanes*	NO	36 avg.	16-63	4 samples quarterly	ppb	0	80	By-product of water chlorination
THAA - total haloacetic acids	NO	22 avg.	11-48	4 samples quarterly	ppb	0	60	By-product of water chlorination
<i>LEAD & COPPER</i>								
LEAD ¹	NO	90 th percentile = 0.5		6/14	ppm	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
COPPER ¹	NO	90 th percentile = 0.69		6/14	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
<i>OTHER</i>								
ALKALINITY	NO	67		2014	ppm	N/A	N/A	Capacity of water to neutralize acids
HARDNESS	NO	102		2014	ppm	N/A	N/A	Erosion of natural deposits

TABLE NOTES

1. During the most recent round of Lead and Copper testing, 0 out of 30 households sampled contained concentrations exceeding the action level. 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. Brentwood Water Services is responsible for providing high quality drinking water, but cannot control the variety of material 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 30-120 seconds before using water for drinking or cooking. If you are concerned about lead in your water you may wish to have your water tested, which is available from private testing laboratories for a fee. For more information about testing your water, call EPA's Safe Drinking Water Hotline at 800-426-4791. Other information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Hotline or at www.epa.gov/safewater/lead.

*Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.

**The Treatment Technique requirements for Total Organic Carbon were met in 2014.

- **MCLG: Maximum Contaminant Level Goal**, or 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 Levels** 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.
- **MRDLG: Maximum Residual Disinfectant Level Goal**, or the level of a drinking water disinfectant below which there is no known or expected health risk. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- **MRDL: Maximum Residual Disinfectant Level**, or the highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for the control of microbial contaminants.
- **AL: Action Level**, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- **Non-Detects (ND)** - laboratory analysis indicates that the contaminant is not present.
- **Parts per million (ppm) or Milligrams per liter (mg/l)** – equal to a single penny in \$10,000.
- **Parts per billion (ppb) or Micrograms per liter** - corresponds to a single penny in \$10,000,000.
- **TT - Treatment Technique**, or a required process intended to reduce the level of a contaminant in drinking water.
- **NTU-Nephelometric Turbidity Units**, a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

How can I get involved?

Our City Commission typically meets on the second and fourth Monday at the Municipal Center located at 5211 Maryland Way. Please feel free to participate in these meetings. Your input is valuable in maintaining the safety and integrity of your water system.



Is our water system meeting other rules that govern our operations?

The State and EPA require us to test and report on our water on a regular basis to ensure its safety. We have met all of these requirements. We want you to know that we pay attention to all the rules.

Other Information

Due to all water containing dissolved contaminants, occasionally your water may exhibit slight discoloration. Often, this is attributable to preventive maintenance activities such as water main flushing. For more information on maintenance activities, service interruptions, or to report a problem, please call us at 615-371-0080 or refer to our website at <http://www.brentwood-tn.org>. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

BRENTWOOD WATER SERVICES



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