

# H.B. &T.S. Utility District Water Quality Report 2004

## Is my drinking water safe?

Yes, our water meets all of EPA's health standards. We have conducted numerous tests for over 80 compounds that may be in drinking water. As you'll see in the chart on the back, we only detected 10 of these compounds. We found all of these compounds at safe levels.

## What is the source of my water?

Your water comes from the Duck River (Spring Hill) and the Cumberland River (Harpeh Valley U.D.). Our goal is to protect our water from contaminants and we are working with the State to determine the vulnerability of our water supply to contaminants. The Tennessee Department of Environment and Conservation has prepared a Source Water Assessment for the water supplies serving this water system. The Assessment Susceptibility Ratings to potential contamination are as follows: Reasonably (high), Moderately (moderate) or Slightly (low). The ratings are based on geologic factors and human activities within the source water protection area of the water source. H.B.&T.S.'s water sources rated as reasonably susceptible to potential contamination.

An explanation of this report can be viewed online at [www.state.tn.us/environment/dws/dwassess.php](http://www.state.tn.us/environment/dws/dwassess.php) or you may contact the TDEC at 1-888-891-TDEC to obtain copies of specific assessments.

## Why are there compounds in my water?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some compounds. Community water systems are required to disclose the detection of compounds; however, bottled water companies are not required to comply with this regulation. The presence of compounds does not necessarily indicate that water poses a health risk. More information about compounds and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

For more information about your drinking water, please call Randy York at 794-7796.



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

## How can I get involved?

Our Water Board meets on the fourth Wednesday at 9:00 am each month at our office. The office is located at 2000 Columbia Avenue Franklin, Tennessee 37064. Please feel free to participate in these meetings.

## 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 compounds, occasionally your water may exhibit slight discoloration. We strive to maintain the standards to prevent this. We at H.B.&T.S. work around the clock to provide top quality water to every tap. 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.

## DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Some people may be more vulnerable to compounds 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 also 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 microbiological compounds are available from the Safe Drinking Water Hotline (800-426-4791).

## Water Quality Data

### What does this chart mean?

- **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 Level, or 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. 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.
- **AL** - Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- **Parts per million (ppm) or Milligrams per liter (mg/l)** – explained as a relation to time and money as 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** - explained as a relation to time and money as 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.
- **Nephelometric Turbidity Unit (NTU)** - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- **TT** - Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.
- **MRDL**: 'Maximum Residential Disinfection Level'- The highest level of disinfectant allowed in drinking water
- **MRDLG**: 'Maximum Residential Disinfectant Goal'-The level of a drinking water disinfectant below which there is no known or expected risk to health

**Unless otherwise noted the data presented in this table is from sampling performed during the 2004 calendar year.**

Contaminant	Violation Yes/No	Level Detected	Range of Detections	Date of Sample	Unit Measurement	MCLG	MCL	Likely Source of Contamination
<b>Total Coliform Bacteria</b>	No	0		15 samples taken per month		0	Presence of coliform bacteria in 5% of monthly samples	Bacteria naturally present in the environment serving as an indicator that harmful bacteria may be present
<b>Total Organic Carbon</b>	No	2.08 max	1.08-2.08	2004	PPM	N/A	TT	Naturally present in the environment
<b>Turbidity<sup>1</sup></b>	No	.08avg	.03-.19	2004	NTU	N/A	TT	Soil runoff
<b>Copper<sup>2</sup></b>	No	90 <sup>th</sup> % = .12		6/27/02	PPM	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
<b>Fluoride</b>	No	.86	.80-.90	4 Qtrly. Samples in 2004	PPM	4.0	4.0	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
<b>Lead<sup>2</sup></b>	No	90 <sup>th</sup> % = 4.3		6/27/02	PPB	15	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
<b>Chlorine</b>	No	2.42 avg.	0.08-3.3	2004	PPM	4.0 (MRDL)	4.0 (MRDLG)	Water additive used to control microbes
<b>Sodium</b>	No	7.4	7.0-7.4	6/03/2004 7/14/2004	PPM	N/A	N/A	Erosion of natural deposits; used in water treatment
<b>TTHM (Total-Trihalomethanes)</b>	No	65	29-100	4 Qtrly. Samples In 2004	PPB	0	80	By – product of drinking Water chlorination
<b>THAA (Total Haloacetic Acids)</b>	No	55	16-110	4 Qtrly. Samples in 2004	PPB	0	60	By product of drinking water chlorination

<sup>1</sup> Highest single measurement for turbidity.

<sup>2</sup> During the most recent round of Lead and Copper testing, 0 out of 20 households sampled contained concentrations exceeding the action level.

\*You 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.

\*\* We met the Treatment Technique requirements for Total Organic Carbons in 2004.

H.B. & T.S. Utility District is an Equal Opportunity Provider and Employer.

## Just the Facts

Created in 1968, **H.B. & T. S. Utility District** is a non-profit public utility. Our goal is to provide and meet all the safe drinking water needs of our customers.

Currently serving 5,200 homes in Williamson County and maintaining over 300 miles of water line, from 2" PVC to 24" Ductile Iron. We have a water storage capacity of 7.2 Million Gallons and pump 1.3 Million Gallons of water on average daily.

### Lead & Copper Testing

A new round of sampling for high levels of Lead and Copper will begin this June. Those households that have been a part of H.B. & T.S ' s Lead & Copper Testing since 1991, will be receiving notification of how and when collecting will take place in May.

### Water Hardness

Believe it or not, 85% of the U.S. has hard water. The water in our district is categorized as slightly or moderately hard. On average testing for the year 2004, the water hardness level was 99 PPM (Parts Per Million) or 5.79 grains per gallon.

### Cross Connection

Be aware and never cross connect your safe drinking water with a source that could be contaminated. This includes wells that have not been tested and garden hoses hooked up to lawn chemicals. A backsiphonage of water or a faulty valve could allow dangerous chemicals to enter your safe drinking water supply. If you have a well or use chemicals that come in contact with the public's safe drinking water, you must install a backflow prevention device and have it tested annually to insure that it is in proper working condition. A backflow prevention device will separate and not allow your safe drinking water to come into contact with anything unsafe.

Questions? Call us for further assistance.

**H.B. &T.S.  
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