

## 2018 Water Quality Report





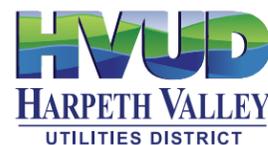
## Is my drinking water safe?

Yes, your drinking water is safe. In 2018, we conducted tests for more than 57 contaminants that might be found in drinking water. The state and the 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.

## Where does our water come from?

Our water source is the Cumberland River commonly known as Cheatham Lake. We work closely with the Tennessee Department of Environment and Conservation (TDEC) to assess the status of our water source for contamination. TDEC rates the potential for water source contamination based on geologic factors and human activities in the vicinity of the water source. TDEC has rated our source, classified as surface water, as reasonably susceptible.

Specific information about HVUD and its Source Water Assessment Program (SWAP) Report from TDEC can be viewed online at: <https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/source-water-assessment.html> or you may contact the Harpeth Valley Utilities District or TDEC at 1-888-891-TDEC (1-888-891-8332) to obtain copies of specific assessments.



## Important health information.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people can be particularly at risk for infections. This includes those undergoing chemotherapy, people who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants. These people should seek advice from a health care provider about their drinking water. More information about EPA guidelines on appropriate means to lessen the risk of infection by Cryptosporidium or other microbial contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (1-800-426-4791).

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. Harpeth Valley Utilities District 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 two 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>.

## About the data.

The data presented in the table below is from testing done between January 1, 2018 and December 31, 2018. HVUD monitors for some contaminants less than once per year. For those contaminants, the date of the last sample is shown on the table.

CONTAMINANT	VIOLATION YES / NO	LEVEL DETECTED	RANGE OF DETECTIONS	DATE OF SAMPLE	UNIT OF MEASUREMENT	MCLG	MCL	LIKELY SOURCE OF CONTAMINANT
TURBIDITY <sup>1</sup>	NO	0.05 AVG	0.04-0.15*	2018	NTU	N/A	TT	• SOIL RUNOFF
TOTAL ORGANIC CARBON (TOC)	NO	1.40 MAX	1.02-1.40**	2018	PPM	N/A	TT	• NATURALLY PRESENT IN THE ENVIRONMENT
TOTAL COLIFORM BACTERIA (RTCR)	NO	1.43%	-	70 samples per month	-	0	TT Trigger	• NATURALLY PRESENT IN THE ENVIRONMENT
<b>INORGANIC CONTAMINANTS</b>								
CHLORINE	NO	1.25 AVG	0.20-2.20	2018	PPM	4.0 (MRDLG)	4.0 (MRDL)	• WATER ADDITIVE USED TO CONTROL MICROBES
FLUORIDE	NO	0.41 AVG	0.23-0.79	2018	PPM	4.0	4.0	• EROSION OF NATURAL DEPOSITS • WATER ADDITIVE THAT PROMOTES STRONG TEETH
NITRATE	NO	0.49	-	11/1/2018	PPM	10.0	10.0	• SOIL RUNOFF FROM FERTILIZER
SODIUM	NO	8.36	-	10/11/2018	PPM	N/A	N/A	• EROSION OF NATURAL DEPOSITS
<b>VOLATILE CONTAMINANTS</b>								
TTHM TOTAL TRIHALOMETHANES	NO	58.3	14.0-79.7	4 QUARTERLY SAMPLES FOR 2018	PPB	0	80	• BY-PRODUCT OF DRINKING WATER CHLORINATION
THAA TOTAL HALOACETIC ACIDS	NO	32.5	10.6-51.2	4 QUARTERLY SAMPLES FOR 2018	PPB	0	60	• BY-PRODUCT OF DRINKING WATER CHLORINATION
<b>LEAD AND COPPER</b>								
LEAD <sup>2</sup>	NO	1.1***	-	9/6/2017	PPB	0	AL=15	• CORROSION OF HOUSEHOLD PLUMBING SYSTEMS • EROSION OF NATURAL DEPOSITS
COPPER <sup>2</sup>	NO	0.084***	-	9/6/2017	PPM	1.3	AL=1.3	• CORROSION OF HOUSEHOLD PLUMBING SYSTEMS • EROSION OF NATURAL DEPOSITS • LEACHING FROM WOOD PRESERVATIVES
<b>MISCELLANEOUS COMPOUNDS</b>								
ALKALINITY	NO	80 AVG	44-117	2018	PPM	N/A	N/A	• THE CAPACITY OF WATER TO NEUTRALIZE ACIDS
HARDNESS <sup>3</sup>	NO	99 AVG	82-130	2018	PPM	N/A	N/A	• EROSION OF NATURAL DEPOSITS

UNREGULATED CONTAMINANTS	LEVEL DETECTED (PPB)	RANGE OF DETECTIONS
BROMOCHLOROACETIC ACID <sup>4</sup>	2.65 AVG	0.930-3.82
BROMODICHLOROACETIC ACID <sup>4</sup>	2.90 AVG	2.23-3.47
CHLORODIBROMOACETIC ACID <sup>4</sup>	0.398 AVG	0.302-0.528
DIBROMOACETIC ACID <sup>4</sup>	0.437 AVG	0.376-0.511
DICHLOROACETIC ACID <sup>4</sup>	12.7 AVG	3.81-22.2
MONOCHLOROACETIC ACID <sup>4</sup>	2.74 AVG	2.04-3.65
TRICHLOROACETIC ACID <sup>4</sup>	12.4 AVG	6.47-17.6
MANGANESE <sup>4</sup>	6.84	-

\* We met the Treatment Technique requirement for Turbidity in 2018 with 100% of monthly samples below the Turbidity limit of 0.3 NTU.

\*\* We met the Treatment Technique requirement for Total Organic Carbon in 2018.

\*\*\* 90th percentile

- Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.
- During the most recent round of lead and copper testing, 0 out of 30 households sampled contained concentrations exceeding the action level.
- Equivalent to 5.8 grains per gallon of hardness.
- Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. For more information call the Safe Drinking Water Hotline at (800) 426-4791.

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.
BDL	Below Detection Limit
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.
MRDL	Maximum Residual Disinfectant Level, the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for the control of microbial contaminants.
MRDLG	Maximum Residual Disinfectant Level Goal, 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 use of disinfectants to control microbial contaminants.
N/A	Not applicable.
NTU	Nephelometric Turbidity Units, a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
PPB	Parts Per Billion or micrograms per liter (1 part per billion equals 1 penny in \$10,000,000).
PPM	Parts Per Million or milligrams per liter (1 part per million equals 1 penny in \$10,000).
RTCR	Revised Total Coliform Rule. This rule went into effect April 1, 2016 and replaces the MCL for total coliform with a Treatment Technique Trigger for a system assessment.
TT	Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.
Turbidity	Turbidity does not present any risk to your health. HVUD monitors turbidity, a measure of the cloudiness of water, because it is a good indicator that the filtration system is functioning properly.

## One final drop.

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:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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. In order to ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) and the Tennessee Department of Environment and Conservation prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which provide protection for public health.

For more information about contaminants and potential health effects, call the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

*All governmental powers of the District are exercised by the District's Board of Commissioners. The Board consists of three members, serving staggered four year terms. The Members of the Board are appointed by the County Mayor of Williamson County and the Probate Judge of Davidson County from a list of three nominees, in order of preference, submitted by the Board. All decisions by the Board on customer complaints may be reviewed by the Utility Management Review Board pursuant to Tennessee Code Annotated, Section 7-82-702(7).*

*This institution is an equal opportunity provider and employer.*

## HVUD: Quality water, quality service.

This report was issued as a requirement of an amendment to the 1996 Safe Drinking Water Act. The 1998 amendment allows the Environmental Protection Agency (EPA) to require a Consumer Confidence Report every 12 months. The goal of the EPA is to inform all customers about water quality issues in their area and to give customers any information needed to become involved in local water issues, if so desired. Although this is a new law, we have been testing our water for years and are pleased to report that, once again, our water passed the test with flying colors. If you would like more information about this report, please feel free to contact Bruce Trotter or Lynn Osborn at 615-352-7076 or visit us at 5838 River Road, Nashville, Tennessee. Our Board of Commissioners meets on the fourth Monday of each month at 9:00 a.m. in the district office.



P.O. Box 210319 • 5838 River Road • Nashville, TN 37221

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