

# Old Hickory Water Company Water Quality Report for 2022

## Is my drinking water safe?

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

## What is the source of my water?

Your water is treated groundwater Purchased from City of Maynardville. Our goal is to protect our water from contaminants and we are working with the State to determine the vulnerability of our water source to **potential** contamination. The Tennessee Department of Environment and Conservation (TDEC) has prepared a Source Water Assessment Program (SWAP) Report for the untreated water sources serving this water system. The SWAP Report assesses the susceptibility of untreated water sources to **potential** contamination. To ensure safe drinking water, all public water systems treat and routinely test their water. Water sources have been rated as reasonably susceptible, moderately susceptible or slightly susceptible based on geologic factors and human activities in the vicinity of the water source. The **Error! Reference source not found.** sources rated as reasonably susceptible to potential contamination. An explanation of Tennessee's Source Water Assessment Program, the Source Water Assessment summaries, susceptibility scorings and the overall TDEC report to EPA can be viewed online at or you may contact the Water System to obtain copies of specific assessments.

<https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/source-water-assessment.html>

A wellhead protection plan is available for your review by contacting Michael Payne at the **Error! Reference source not found.** between 8:00 A.M. to 4:30 P.M. weekdays.

## Why are there contaminants in my water?

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 (800-426-4791).

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

**For more information about your drinking water, please call Justin Noah at 865-992-5241.**

## How can I get involved?

Our Water Board meets on the second Tuesday of each month at 7:00 p.m. at City Hall, 125 Johnson Rd. If you want to participate please contact Justin Noah at 865-992-5241.

## 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. During March of 2022 we did not collect a routine Total Coliform sample, we did collect this sample on April 27<sup>th</sup> and returned to compliance. Results of unregulated contaminant analysis are available upon request. We want you to know that we pay attention to all the rules.

## Other Information

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.

In order to ensure that tap water is safe to drink, EPA and the Tennessee Department of Environment and Conservation prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. **Error! Reference source not found.**'s water treatment processes are designed to reduce any such substances to levels well below any health concern. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

## Do I Need To Take Special Precautions?

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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

## Lead in Drinking Water

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. The Old Hickory Water Company 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 the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>  
Lead hotline no.: 800-426-4791

## Water System Security

Following the events of September 2001, we realize that our customers are concerned about the security of their drinking water. We urge the public to report any suspicious activities at any utility facilities to 865-992-5241.

## Pharmaceuticals In Drinking Water

Flushing unused or expired medicines can be harmful to your drinking water. Learn more about disposing of unused medicines at <https://tdeconline.tn.gov/rxtakeback/>



# 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.
- MRDL: Maximum Residual Disinfectant Level or MRDL: 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 the use of disinfectants to control 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.
- Below Detection Level (BDL) - laboratory analysis indicates that the contaminant is not present at a level that can be detected.
- Non-Detects (ND) - laboratory analysis indicates that the contaminant is not present.
- 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 %
- 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.
- 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.
- RTCR – Revised Total Coliform Rule. This rule went into effect on 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.

## Old Hickory Water Company

Contaminant	Violation Yes/No	Level Detected	Range of Detections	Date of Sample	Unit Measurement	MCLG	MCL	Likely Source of Contamination
*Total Coliform Bacteria (RTCR)	No	0		2022		0	TT Trigger	Naturally present in the environment
Copper <sup>2</sup>	No	90 <sup>th</sup> % 0.078		2022	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead <sup>2</sup>	No	90 <sup>th</sup> % BDL		2022	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
TTHM [Total trihalomethanes]	No	21.8 Avg.		2022	ppb	n/a	80	By-product of drinking water chlorination
Haloacetic Acids (HAA5)	No	15.2 Avg.		2022	ppb	N/A	60	By-product of drinking water disinfection.
*Chlorine	No	1.76 Avg.	1.6-2.0	2022	ppm	4	4	Water additive used to control microbes.

<sup>1</sup>100% of our samples were below the turbidity limit. Turbidity is a measurement of the cloudiness of water. <sup>2</sup>During the most recent round of Lead and Copper testing 0 out of 5 households sampled contained concentrations exceeding the action level for lead or copper. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities.

<sup>3</sup>We have met all treatment technique requirements for Total Organic Carbon removal

\*Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

- **Old Hickory Water Company purchases its water from Maynardville Water System. The results in the data table below are from there monitoring.**



## Maynardville Water System Water Quality Report for 2022

Contaminant	Violation Yes/No	Level Detected	Range of Detections	Date of Sample	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria (RTCR)	No	0		2022		0	TT Trigger	Naturally present in the environment
Turbidity <sup>1</sup>	No	.28	.02-.28	2022	NTU	n/a	TT	Soil runoff
Copper	No	90th % 0.105		2021	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride	No	.605	.425-.886	2022	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead <sup>4</sup>	No	90th % .022		2021	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as Nitrogen) <sup>5</sup>	No	1.03		2022	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	No	3.15		2020	ppm	N/A	N/A	Erosion of natural deposits; used in water treatment
TTHM <sup>6</sup> [Total trihalomethanes]	No	15.6 Avg.	.7-15.6	2022	ppb	n/a	80	By-product of drinking water chlorination
Arsenic <sup>2</sup>	No	<1.0	<1.0	2022	ppb	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Haloacetic Acids (HAA5)	No	1.11 Avg.	.4-1.17	2022	ppb	N/A	60	By-product of drinking water disinfection.
Total Organic Carbon	No			2022	ppm	TT	TT	Naturally present in the environment.
Chlorine	No	1.76	1.20-2.20	2022	ppm	4	4	Water additive used to control microbes.

1 100% of our samples were below the turbidity limit. Turbidity is a measurement of the cloudiness of water. 2 During the most recent round of Lead and Copper testing 1 out of 20 households sampled contained concentrations exceeding the action level for lead or copper. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

3 Water purchased from Northeast Knox Utility District met the treatment technique requirements for TOC during the calendar year of 2022 .

4 We are to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards.

During the second quarter of 2022 we failed to monitor for Total Trihalomethanes and Haloacetic Acids per our Stage 2 DBP LRAA monitoring plan. At no time was our levels above the MCL for THM and HAA5's. We have taken steps to ensure that we do not miss another scheduled sample date. While your drinking water meets EPA's standard for trihalomethanes and Haloacetic Acids , it does contain low levels. Some people who drink water containing trihalomethanes and Haloacetic Acids in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

