

2022 Annual Drinking Water Quality Report

Town of Pikeville

Water System Number: NC0496030



Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is a snapshot of last year's water quality. Included are details about your source(s) of water, what it contains, and how it compares to standards set by regulatory agencies. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water and to providing you with this information because informed customers are our best allies. **If you have any questions about this report or concerning your water, please contact the Town of Pikeville Hall at (919) 242-5126. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held at the Town Hall on the Second Monday of each month at 6:00 PM.**

What EPA Wants You to Know

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).

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/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).

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 Town of Pikeville 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>.

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 include 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; and 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 prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

When You Turn on Your Tap, Consider the Source

The water that is used by this system is purchased water from the Town of Fremont and Wayne Water District

Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environmental Quality (DEQ), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate or Lower.

The relative susceptibility rating of each source for the Town of Pikeville was determined by combining the contaminant rating (number and location of PCSs within the assessment area) and the inherent vulnerability rating (i.e., characteristics or existing conditions of the well or watershed and its delineated assessment area). The assessment findings are summarized in the table below:

Susceptibility of Sources to Potential Contaminant Sources (PCSs)

| Source Name | Susceptibility Rating | SWAP Report Date |
|---------------------------------|-----------------------|------------------|
| Fremont – 14 wells | Lower – Moderate | September 2020 |
| Wayne Water District – 32 Wells | Lower – Moderate | September 2020 |

The complete SWAP Assessment report for the Town of Pikeville may be viewed on the Web at: https://www.ncwater.org/SWAP_Reports/NC0496030_SWAP_Report-20200909.pdf the Wayne Water District at https://www.ncwater.org/SWAP_Reports/NC0496065_SWAP_Report-20200909 Note that because SWAP results and reports are periodically updated by the PWS Section, the results available on this web site may differ from the results that were available at the time this CCR was prepared. If you are unable to access your SWAP report on the web, you may mail a written request for a printed copy to: Source Water Assessment Program – Report Request, 1634 Mail Service Center, Raleigh, NC 27699-1634, or email requests to swap@ncdenr.gov. Please indicate your system name, number, and provide your name, mailing address and phone number. If you have any questions about the SWAP report please contact the Source Water Assessment staff by phone at 919-707-9098.

It is important to understand that a susceptibility rating of “higher” does not imply poor water quality, only the system’s potential to become contaminated by PCSs in the assessment area.

Help Protect Your Source Water

Protection of drinking water is everyone’s responsibility. You can help protect your community’s drinking and source water through the following actions: disposing of chemicals and paints properly, taking used motor oil to a recycling center, eliminating or strictly limiting the use of harsh lawn and garden fertilizers and pesticides, and practicing water conservation in and around your home.

Violations that Your Water System Received for the Report Year

During 2022, we received a Monitoring violation that covered the time period of 01-01-2022 through 12-31-2022. We have reviewed and adjusted the monitoring compliance to ensure this does not happen again.

NOTICE TO THE PUBLIC

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Violation Awareness Date: 8/2022

We are required 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 compliance period specified in the table below, we tested late for the contaminants listed and therefore cannot be sure of the quality of your drinking water during that time.

| CONTAMINANT GROUP** | FACILITY ID NO./ SAMPLE POINT ID | COMPLIANCE PERIOD BEGIN DATE | NUMBER OF SAMPLES/ SAMPLING FREQUENCY | WHEN SAMPLES WERE TAKEN (Returned to Compliance) |
|---------------------|----------------------------------|------------------------------|---------------------------------------|--|
| HAA5 | D01 / B01 | 01-01-2022 | 1 YEARLY | 07-05-2022 |

(HAA5)- Haloacetic Acids - include Monochloroacetic Acid, Dichloroacetic Acid, Trichloroacetic Acid, Monobromoacetic Acid, Dibromoacetic Acid.

What should I do? There is nothing you need to do at this time.

What is being done? The compliance schedule has been adjusted to prevent the delayed sampling.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information about this violation, please contact the responsible person listed in the first paragraph of this report.

Important Drinking Water Definitions:

- **Not-Applicable (N/A)** – Information not applicable/not required for that particular water system or for that particular rule.
- **Non-Detects (ND)** - Laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.
- **Parts per million (ppm) or Milligrams per liter (mg/L)** - 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 (ug/L)** - 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.
- **Million Fibers per Liter (MFL)** - Million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.
- **Variances and Exceptions** – State or EPA permission not to meet an MCL or Treatment Technique under certain conditions.
- **Action Level (AL)** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **Treatment Technique (TT)** - A required process intended to reduce the level of a contaminant in drinking water.
- **Maximum Residual Disinfection Level (MRDL)** – The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Maximum Residual Disinfection Level Goal (MRDLG)** – 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.
- **Locational Running Annual Average (LRAA)** – The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters under the Stage 2 Disinfectants and Disinfection Byproducts Rule.
- **Running Annual Average (RAA)** – The average of sample analytical results for samples taken during the previous four calendar quarters.
- **Level 1 Assessment** - A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- **Level 2 Assessment** - A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
- **Maximum Contaminant Level (MCL)** - 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.
- **Maximum Contaminant Level Goal (MCLG)** - 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.

Water Quality Data Tables of Detected Contaminants

We routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The tables below list all the drinking water contaminants that we detected in the last round of sampling for each particular contaminant group. The presence of contaminants does not necessarily indicate that water poses a health risk. **Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2022.** The EPA and the State allow us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

Lead and Copper Contaminants

| Contaminant (units) | Sample Date | Your Water (90 th Percentile) | Number of sites found above the AL | MCLG | AL | Likely Source of Contamination |
|--|-------------|--|------------------------------------|------|--------|--|
| Copper (ppm) (90 th percentile) | 06-2022 | 0.494 (ppm) | 0 | 1.3 | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits |
| Lead (ppb) (90 th percentile) | 06-2022 | 0.00 (ppb) | 0 | 0 | AL=15 | Corrosion of household plumbing systems; erosion of natural deposits |

Disinfectant Residuals Summary

| | MRDL Violation Y/N | Your Water (highest RAA) | Range | | MRDLG | MRDL | Likely Source of Contamination |
|----------------|--------------------|--------------------------|-------|------|-------|------|---|
| | | | Low | High | | | |
| Chlorine (ppm) | N | 1.62 | 0.52 | 1.62 | 4 | 4.0 | Water additive used to control microbes |

Stage 2 Disinfection Byproduct Compliance - Based upon Locational Running Annual Average (LRAA)

| Disinfection Byproduct | Year Sampled | MCL Violation Y/N | Your Water (highest LRAA) | Range | | MCLG | MCL | Likely Source of Contamination |
|------------------------|--------------|-------------------|---------------------------|-------|------|------|-----|--|
| | | | | Low | High | | | |
| TTHM (ppb) | 2022 | N | | | | N/A | 80 | Byproduct of drinking water disinfection |
| Location (Ex. B01) | | | 37 (ppm) | N/A | | | | |
| HAA5 (ppb) | 2022 | N | | | | N/A | 60 | Byproduct of drinking water disinfection |
| Location (Ex. B01) | | | 10 (ppb) | N/A | | | | |

Town of Fremont

Lead and Copper Contaminants

| Contaminant (units) | Sample Date | Your Water (90 th Percentile) | Number of sites found above the AL | MCLG | AL | Likely Source of Contamination |
|--|-------------|--|------------------------------------|------|--------|--|
| Copper (ppm) (90 th percentile) | 9-23-20 | 0.1321 (ppm) | 0 | 1.3 | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits |
| Lead (ppb) (90 th percentile) | 9-23-20 | 0.00 (ppb) | 0 | 0 | AL=15 | Corrosion of household plumbing systems; erosion of natural deposits |

Disinfectant Residuals Summary

| | MRDL Violation Y/N | Your Water (highest RAA) | Range | | MRDLG | MRDL | Likely Source of Contamination |
|----------------|--------------------|--------------------------|-----------------------|------|-------|------|---|
| | | | Low | High | | | |
| Chlorine (ppm) | N | 0.94 (ppm) | 0.3 (ppm) – 1.9 (ppm) | | 4 | 4.0 | Water additive used to control microbes |

Stage 2 Disinfection Byproduct Compliance - Based upon Locational Running Annual Average (LRAA)

| Disinfection Byproduct | Year Sampled | MCL Violation Y/N | Your Water (highest LRAA) | Range | | MCLG | MCL | Likely Source of Contamination |
|------------------------|--------------|-------------------|---------------------------|------------|------|------|-----|--|
| | | | | Low | High | | | |
| TTHM (ppb) | 2022 | N | | | | N/A | 80 | Byproduct of drinking water disinfection |
| Location (Ex. B01) | | | 40.0 (ppm) | 40.0 (ppm) | | | | |
| HAA5 (ppb) | 2022 | N | | | | N/A | 60 | Byproduct of drinking water disinfection |
| Location (Ex. B01) | | | 21.0 (ppb) | 21.0 (ppb) | | | | |

Wayne Water Districts

Inorganic Contaminants

| Contaminant (units) | Sample Date | MCL Violation Y/N | Your Water | Range | | MCLG | MCL | Likely Source of Contamination |
|---------------------|-------------|-------------------|------------|-------|------|------|-----|---|
| | | | | Low | High | | | |
| Fluoride (ppm) | | | | | | 4 | 4 | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |

This is natural occurring fluoride, as we stopped feeding fluoride in august 2021

Volatile Organic Chemical (VOC) Contaminants

| Contaminant (units) | Sample Date | MCL Violation Y/N | Your Water | Range | | MCLG | MCL | Likely Source of Contamination |
|----------------------------|-------------|-------------------|------------|--------|------|------|-----|--|
| | | | | Low | High | | | |
| Carbon tetrachloride (ppb) | 10/26/22 | N | 0.0006 | 0.0006 | | 0 | 5 | Discharge from chemical plants and other industrial activities |

Lead and Copper Contaminants

| Contaminant (units) | Sample Date | Your Water (90 th Percentile) | Number of sites found above the AL | MCLG | AL | Likely Source of Contamination |
|--|---------------|--|------------------------------------|------|--------|--|
| Copper (ppm) (90 th percentile) | May/June 2022 | 0.557 | 0 | 1.3 | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits |
| Lead (ppb) (90 th percentile) | May/June 2022 | 0.000 | 0 | 0 | AL=15 | Corrosion of household plumbing systems; erosion of natural deposits |

Disinfectant Residuals Summary

| | MRDL Violation Y/N | Your Water (highest RAA) | Range | | MRDLG | MRDL | Likely Source of Contamination |
|----------------|--------------------|--------------------------|-------|------|-------|------|---|
| | | | Low | High | | | |
| Chlorine (ppm) | N | 1.41 | 0.45 | 2.15 | 4 | 4.0 | Water additive used to control microbes |

Stage 2 Disinfection Byproduct Compliance - Based upon Locational Running Annual Average (LRAA)

| Disinfection Byproduct | Year Sampled | MCL Violation Y/N | Your Water (highest LRAA) | Range | | MCLG | MCL | Likely Source of Contamination |
|------------------------|--------------|-------------------|---------------------------|--------|------|------|-------|--|
| | | | | Low | High | | | |
| TTHM (ppb) | 2022 | N | | | | N/A | 0.080 | Byproduct of drinking water disinfection |
| B01 | | | 0.0192 | 0.0192 | | | | |
| B02 | | | 0.0354 | 0.0354 | | | | |
| HAA5 (ppb) | 2022 | N | | | | N/A | 0.060 | Byproduct of drinking water disinfection |
| B01 | | | 0.0141 | 0.0141 | | | | |
| B02 | | | 0.0059 | 0.0059 | | | | |

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 systems, and may have an increased risk of getting cancer.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Other Miscellaneous Water Characteristics Contaminants

| Contaminant (units) | Sample Date | Your Water | Range | | SMCL |
|---------------------|-------------|------------|-------|---------|------------|
| | | | Low | High | |
| Iron (ppm) | 7/27/2022 | 0.158 | 0.158 | | 0.3 mg/L |
| Manganese (ppm) | 7/27/2022 | 0.029 | 0.026 | 0.032 | 0.05 mg/L |
| Sodium (ppm) | 7/27/2022 | 61.69 | 4.989 | 118.404 | N/A |
| Sulfate (ppm) | 7/27/2022 | 99.1 | 99.1 | | 250 mg/L |
| pH | 7/27/2022 | 6.9 | 6.3 | 7.5 | 6.5 to 8.5 |

IMPORTANT:

You may not be aware of it, but every time you pour fat, oil, or grease (FOG) down your sink (e.g., bacon grease), you are contributing to a costly problem in the sewer collection system. FOG coats the inner walls of the plumbing in your house as well as the walls of underground piping throughout the community. Over time, these greasy materials build up and form blockages in pipes, which can lead to wastewater backing up into parks, yards, streets, and storm drains. These backups allow FOG to contaminate local waters, including drinking water. Exposure to untreated wastewater is a public health hazard. FOG discharged into septic systems and drain fields can also cause malfunctions, resulting in more frequent tank pump-outs and other expenses. Communities spend billions of dollars every year to unplug or replace grease-blocked pipes, repair pump stations, and clean up costly and illegal wastewater spills. Here are some tips that you and your family can follow to help maintain a well-run system now and in the future.

NEVER:

- Pour fats, oil, or grease down the house or storm drains.
- Dispose of food scraps by flushing them.
- Use the toilet as a waste basket.

ALWAYS:

- Scrape and collect fat, oil, and grease into a waste container such as an empty coffee can; and dispose of it with your garbage.
- Place food scraps in waste containers or garbage bags for disposal with solid wastes.
- Place a wastebasket in each bathroom for solid wastes like disposable diapers, creams and lotions, and personal hygiene products, including nonbiodegradable wipes.

