

2021 ANNUAL DRINKING WATER QUALITY REPORT  
Alamance, NC - PWS # 02-01-035

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 where your water comes from, 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 our water 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 Town Clerk Ben York at 336-226-0033. 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 located at 2874 Rob Shepard Drive on the 4<sup>th</sup> Monday of every month at 7pm. In May and December the Board meets on the 3<sup>rd</sup> Monday at 7pm at the Town Hall.

**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 lesson the risk of infection by *Cryptosporidium* and other microbiological 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. [Name of Utility] 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 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 storm water 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 storm water 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 storm water 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 from the City of Burlington. A complete copy of the CCR for Burlington is available at the Town Hall for the Village of Alamance. This report includes the sources of the purchased water, as well as other pertinent information.

## Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environment and Natural Resources (DENR), 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 assessments 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 Burlington 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 |
|----------------------------|-----------------------|------------------|
| Stoney Creek Reservoir and | Moderate              | 2017             |
| McIntosh Lake              | Higher                | 2017             |

The complete SWAP Assessment report for [SYSTEM NAME] may be viewed on the Web at: <https://www.ncwater.org/?page=600> 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](mailto: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.

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## Violations that Your Water System Received for the Report Year

The Village of Alamance and the City of Burlington 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.

A “**Monitoring Violation**” means that water was not tested on time.

A “**Reporting Violation**” means that the samples were analyzed, but the results were either not reported or reported incorrectly.

## The Village of Alamance had no Monitoring or Reporting Violations for 2021.

## Water Quality Data Table of Detected Contaminants

Burlington routinely monitors for over 150 contaminants in your drinking water according to Federal and State laws. The results of Burlington’s testing can be viewed in the Alamance Town Hall during normal business hours. The tables below list all the drinking water contaminates the Village detected in the testing performed by our certified Operator. The presence of contaminates does not necessarily indicate that water poses a health risk. Unless otherwise noted, the

data presented in these tables is from testing done January 1 through December 31, 2017. The EPA or the State requires 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.

Important Drinking Water Definitions:

**Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**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 highest 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.

**Non-detects (ND):** Laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.

**Treatment Technology (TT):** A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

**Parts per million (ppm):** One part per million corresponds to one minute in two years or a single penny in \$10,000.

**Parts per billion (ppb):** One part per billion corresponds to one minute in 2,000 years or a single penny in \$ 10,000,000.

Lead and Copper Contaminants

| Contaminant (units)                        | Sample Date | Your Water | # of sites found above the AL | MCL G | MCL    | Likely Source of Contamination   |
|--|-------------|------------|-------------------------------|-------|--------|--|
| Copper (ppm) (90 <sup>th</sup> percentile) | August 2019 | .55        | 0                             | 1.3   | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Lead (ppb) (90 <sup>th</sup> percentile)   | August 2019 | .000       | 0                             | 0     | AL=15  | Corrosion of household plumbing systems; erosion of natural deposits.                                  |

*Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your homes plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (919-426-4791).*

**Microbiological Contaminants in the Distribution System - For systems that collect *less than 40* samples per month**

| Contaminant (units)                           | MCL Violation Y/N | Your Water | MCLG | MCL  | Likely Source of Contamination       |
|---|-------------------|------------|------|--|--------------------------------------|
| Total Coliform Bacteria (presence or absence) | N/A               | N/A        | N/A  | TT*  | Naturally present in the environment |
| <i>E. coli</i> (presence or absence)          | N                 | N          | 0    | Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i><br><br><u>Note:</u> If either an original routine sample and/or its repeat samples(s) are <i>E. coli</i> positive, a Tier 1 violation exists. | Human and animal fecal waste         |

|                   | Year Sampled | MRDL Violation Y/N | Your Water (highest RAA) | Range |      | MRDLG | MRDL | Likely Source of Contamination          |
|-------------------|--------------|--------------------|--------------------------|-------|------|-------|------|---|
|                   |              |                    |                          | Low   | High |       |      |   |
| Chlorine (ppm)    | 2021         | N                  | 1.00                     | 0.00  | 2.2  | 4     | 4.0  | Water additive used to control microbes |
| Chloramines (ppm) | 2021         | N                  | 2.38                     | 1.1   | 3.6  | 4     | 4.0  | Water additive used to control microbes |
|                   |              |                    |                          |       |      |       |      |   |

| Disinfection Byproduct | Year Sampled | MCL Violation | Your Water (highest LRAA) | Range |      | MCLG | MCL | Likely Source of Contamination           |
|------------------------|--------------|---------------|---------------------------|-------|------|------|-----|--|
|                        |              |               |                           | Low   | High |      |     |  |
| TTHM (ppb)             |              |               |                           |       |      | N/A  | 80  | Byproduct of drinking water disinfection |
| B01                    | 2021         | N             | 48                        | 29    | 54   | N/A  | 80  |  |
| B02                    | 2021         | N             | 41                        | 28    | 47   | N/A  | 80  |  |
| HAA5 (ppb)             |              |               |                           |       |      | N/A  | 60  | Byproduct of drinking water disinfection |
| B01                    | 2021         | N             | 36                        | 18    | 66   | N/A  | 60  |  |
| B02                    | 2021         | N             | 31                        | 13    | 47   | N/A  | 60  |  |

**For TTHM:** *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.*

**For HAA5:** *Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*

