"2019" Annual Drinking Water Quality Report
"System Name"

Water System Number 04-74-020

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 Brian Shackelford at 252-341-8221. 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 Town of Farmville Municipal Building in the courtroom on the first Monday of each month.**

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. [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 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 ground water from wells throughout the system and purchase water from Greenville Utility Commision.

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 [SYSTEM NAME] 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
Chinquapin Well	Lower	2017
Dale Well	Lower	2017
Ghost Hollow	Lower	2017
Hwy 258North Well	Lower	2017
Langs Crossroads	Lower	2017
Lincoln Park Well	Moderate	2017
Middle Swamp	Lower	2017
Stantonsburg Well	Lower	2017

The complete SWAP Assessment report for Farmville 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. 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. We have implemented the following source water protection actions: You can help protect your community's drinking water source(s) in several ways: (examples: dispose of chemicals properly; take used motor oil to a recycling center, volunteer in your community to participate in group efforts to protect your source, etc.).

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, (2019).** 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.

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.

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.

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.

Tables of Detected Contaminants

Inorganic Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range Low	Range High	MCLG	MCL	Likely Source of Contamination
Fluoride (ppm)	6/17/19	N	1.0	.17	1.0	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories

Lead and Copper Contaminants

Contaminant (units)	Sample Date	Your Water	Number of sites found above the AL	MCLG	AL	Likely Source of Contamination
Copper (ppm) (90^{th} percentile)	6/7/17	0.274	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90^{th} percentile)	6/7/17	0.0	0	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits

Disinfectant Residuals Summary

	Year Sampled	MRDL Violation Y/N	Your Water (highest RAA)	Range Low High	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	2019	N	1.44	.20 - 2.18	4	4.0	Water additive used to control microbes
Chloramines (ppm)	2019	N	3.29	1.00 _ 4.40	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 Low High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb)					N/A	80	Byproduct of drinking water disinfection
Location B01	2019	N	13.7	7.6 – 19.8			
Location B02	2019	N	11.3	3.9 – 18.7			
HAA5 (ppb)					N/A	60	Byproduct of drinking water disinfection
Location B01	2019	N	13.5	1.0 - 26			
Location B02	2019	N	18.1	9.5 - -26.7			

Greenville Utilities Commission
Consumer Confidence Report Data - 2019

SUBSTANCES (Measuring Units)	Highest Level Allowed [MCL]	Highest Level Detected	Range Detected	Ideal Goals [MCLG]	Description and Origin of Substance	Health Effects Language
Beta Emitters (pCi/L) Last analyzed 2015	50	18	**18.0 - 4.0**	0	Decay of natural and man-made radioactive deposits.	
Bromate (ppb)	10 (Running Annual Average)	**1.0 (Running Annual Average)**	**1.3 - <1.0 (Highest and lowest site value)**	0	By-product of drinking water disinfection.	
Chloramines (ppm)	4 (Running Annual Average)	**3.3 (System Average)**	**3.5 - 2.8 (Highest and lowest site value)**	4	Water additive used to control microbes	
Chlorine (ppm)	4 (Running Annual Average)	**2.7 (System Average)**	**4.5 - 1.2 (Highest and lowest site value)**	4	Water additive used to control microbes	
Fluoride (ppm)	4	**1.3**	**1.3 - 0.6**	4	Natural occurring mineral; also added to water to promote dental health.	
Total Organic Carbon Treated (ppm)	TT no violation	**3.4**	**3.4 - 2.3 (Highest and lowest site value)**	na	Naturally present in the environment.	
Turbidity (NTU)	1.0 and 95% of samples below 0.3 (Treatment Technique)	**0.11 and 100 % of samples below 0.3**	**n/a**	0.3	Turbidity is a measure of cloudiness in water. It may be caused by inorganic soil particles or fragments of organic matter that can interfere with treatment.	

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The relative susceptibility rating of each source for Greenville Utilities Commission 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
WTP	Higher
WSW Well	Moderate
EPW Well	Lower
SSW Well	Moderate

The complete SWAP Assessment report for Greenville Utilities Commission may be viewed on the Web at:
http://www.deh.enr.state.nc.us/pws/swap
To obtain a printed copy of this report, please mail a written request to: Source Water Program - Report Request
1634 Mail Service Center, Raleigh NC 27699-1634, or email request to swap@ncmail.net.
If you have any questions about the SWAP report please contact the Source Water Assessment by phone at 919-715-2633.

Susceptibility rating of "higher" does not imply poor water quality, only the systems' potential to become contaminated by PCS's in the assessment area.

Unregulated Contaminant Monitoring Rule 4 Data

Substances	Highest Level Detected	Range	Description and Origin Substance
Bromochloroacetic Acid ppb	2.9	2.9 - 2.5	By-product of drinking water chlorination
Bromodichloroacetic Acid ppb	1.1	1.1 - 0.97	By-product of drinking water chlorination
Chlorodibromoacetic Acid ppb	0.43	0.43 - 0.39	By-product of drinking water chlorination
Dibromoacetic Acid ppb	0.36	0.36 - 0.30	By-product of drinking water chlorination
Dichloroacetic Acid ppb	10	10.0 - 8.8	By-product of drinking water chlorination
Monochloroacetic Acid ppb	3.1	3.1 - 2.0	By-product of drinking water chlorination
Trichloroacetic Acid ppb	3.1	3.1 - 2.8	By-product of drinking water chlorination

Bromide ppb	26	26	Naturally present in the environment.	
TOC ppm	7.1	7.1	Naturally present in the environment.	

Manganese ppb	7.8	7.8 - 6.0	Naturally-occurring element; commercially available in combination with other elements and minerals; used in steel production, fertilizer batteries and fireworks; drinking water and wastewater treatment chemicals; essential nutrient