Carolina Water Service

of North Carolina[™]

Abington Water System

PWS ID: NC0234191

Annual Water Quality Report 2023

Message from Don Denton, President

Dear Carolina Water Service, Inc. of North Carolina Customers.

I am pleased to present your Annual Water Quality Report for 2023. Transparency, health, and safety are key priorities in our company's efforts to provide a high -quality, reliable water supply. Included in this report are details about where your water comes from, what it contains, and how it compares to regulatory standards.

We are proud to share this report which is based on water quality testing through December 2023. We continually strive to supply water that meets and/or exceeds all federal and state water quality regulations at your tap.

Treating and maintaining a safe and reliable water supply is not only hard work, but it is rewarding. Our team of local water experts are proudly dedicated to providing safe, reliable, and cost-effective service every day. This commitment includes acting with integrity, protecting the environment, and enhancing the local community.

Best regards,

Visit us online at www.carolinawaterservicenc.com Or Join us on Facebook & Twitter @CarolinaWaterNC

We ask that all our customers help us protect our water sources which are the heart of our community, our way of life and our children's future.

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

To access your utility account anytime, anywhere, please register for our customer portal & download

My Utility Account at https://account.myutility.us

Source of Drinking Water

Your water comes from several wells located in Forsyth County, which draw water from a fractured bedrock aquifer. An aquifer is a geological formation that contains water.

Water Conservation

Please be reminded that our water systems in North Carolina are always in some stage of either voluntary or mandatory water conservations restriction. These restrictions may vary weekly due to drought conditions and are dictated by a system established by the North Carolina Utilities Commission in an order dated May 23, 2008. Customers are encouraged to keep informed of restrictions current by visiting www.carolinawaterservicenc.com and clicking the "NC Drought Report" icon under Conserve & Save or call our customer service at (800) 525-7990.

Help Protect our Resources

Help put a stop to the more than 1 trillion gallons of water lost annually nationwide due to household leaks. These easy to fix leaks waste the average family the amount of water used to fill a backyard swimming pool each year. Plumbing leaks can run up your family's water bill an extra 10 percent or more, but chasing down these water and money wasting culprits is as easy as 1-2-3. Simply check, twist, and replace your way to fewer leaks and more water savings:

 \Rightarrow **Check** for silent leaks in the toilet with a few drops of food coloring in the tank, and check your sprinkler system for winter damage.

 \Rightarrow **Twist** faucet valves; tighten pipe connections; and secure your hose to the spigot. For additional savings, twist a WaterSense labeled aerator onto each bathroom faucet to save water without noticing a difference in flow. They can save a household more than 500 gallons each year-equivalent to the amount water used to shower 180 times!

⇒**Replace** old plumbing fixtures and irrigation controllers that are wasting water with WaterSense labeled models that are independently certified to use 20 percent less water and perform well.

For more information visit www.epa.gov/watersense.

EPA Wants You To Know

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 water for drinking or cooking. If you are concerned about from human activity.

Contaminants that may be present in source water include:

- A. Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- B. 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.
- C. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- D. 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.
- E. Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

What measures are in place to ensure water is safe to drink?

In order to ensure that tap water is safe to drink, the EPA prescribes regulations, which 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 must provide the same protection for public health.

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).

Special notice from EPA for the elderly, infants, cancer patients and people with HIV/AIDS or other immune system problems

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer persons underaoina chemotherapy, 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).

Information Concerning Lead in 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. Carolina Water Service, Inc. of North Carolina 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 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

www.epa.gov/safewater/lead.

Water that remains stationary within your home plumbing for extended periods of time can leach lead out of pipes joined with lead-containing solder as well as brass fixtures or galvanized pipes. Flushing fixtures has been found to be an effective means of reducing lead levels. The flushing process could take from 30 seconds to 2 minutes or longer until it becomes cold or reaches a steady temperature. Faucets, fittings, and valves, including those advertised as "lead-free," may contribute lead to drinking water. Consumers should be aware of this when choosing fixtures and take appropriate precautions. Visit the NSF Web site at www.nsf.org to learn more about lead-containing plumbing fixtures.

Drain Disposal Information

Sewer overflows and backups can cause health hazards, damage home interiors, and threaten the environment. A common cause is sewer pipes blocked by grease, which gets into the sewer from household drains. Grease sticks to the insides of pipes. Over time, the grease can build up and block the entire pipe. Help solve the grease problem by keeping this material out of the sewer system in the first place:

- Never pour grease down sink drains or into toilets. Scrape grease into a can or trash.
- Put strainers in sink drains to catch food scraps / solids for disposal.

Prescription Medication and Hazardous Waste

Household products such as paints, cleaners, oils, and pesticides, are considered to be household hazardous waste. Prescription and over-the-counter drugs poured down the sink or flushed down the toilet can pass through the wastewater treatment system and enter rivers and lakes (or leach into the ground and seep into groundwater in a septic system). Follow the directions for proper disposal procedures. Do not flush hazardous waste or prescription and over-the-counter drugs down the toilet or drain. They may flow downstream to serve as sources for community drinking water supplies. Many communities offer a variety of options for conveniently and safely managing these items. For more information, visit the EPA website at: www.epa.gov/hw/household-hazardous-wastehhw.

The Safe Drinking Water Act was passed in 1974 due to congressional concerns about organic chemical contaminants in drinking water and the inefficient manner by which states supervised and monitored drinking water supplies. Congress' aim was to assure that all citizens served by public water systems would be provided high quality water. As a result, the EPA set enforceable standards for health-related drinking water contaminants. The Act also established programs to protect underground sources of drinking water from contamination.

Understanding This Report In order to help you understand this report, we want you to understand a few terms and abbreviations that are contained in it.

Action level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
Average (AVG)	Regulatory compliance with some MCLs is based on running annual average of monthly samples
EPA	Environmental Protection Agency.
Maximum Contaminant Level (MCL)	The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.
Maximum Contaminant Level Goal (MCLG)	The "goal" is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.
Maximum Residual Disinfectant 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 Disinfectant 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.
Not applicable (N/A)	Not applicable.
Not Detected (ND)	Analysis or test results indicate the constituent is not detectable at minimum reporting limit.
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)	A measure of radioactivity in the water.
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)	Calculated running annual average of all contaminant levels detected.

Source Water Assessment Program (SWAP)

The North Carolina Department of Environmental Quality (DEQ), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all 1634 Mail Service Center, Raleigh, NC 27699-1634, or email drinking water sources across North Carolina. The purpose of requests to swap@ncdenr.gov. Please indicate your system 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 Abington 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		
Well #1	Lower	09/09/2020		
Well #3	Lower	09/09/2020		
Well #4	Lower	09/09/2020		
Well #6	Moderate	09/09/2020		
Well #7	Moderate	09/09/2020		
Well #10	Lower	09/09/2020		

The complete SWAP Assessment report for Abington may be viewed on the Web at: 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,

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.

Monitoring Your Water

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, 2023. 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.

If You Have Questions Or Want To Get Involved

Carolina Water Service, Inc. of North Carolina does not hold regular public meetings. If you have any questions about this report or concerning your water, or would like a company representative to attend an upcoming homeowners association meeting, please contact Customer Service at 1-800-525-7990.

Nitrate/Nitrite ContaminantsNitrate, as Nitrogen (ppm)2023Inorganics ContaminantsFluoride (ppm)2022Radioactive ContaminantsAlpha emitters (pCi/L)2018Combined radium (pCi/L)2018Uranium (pCi/L)2018Disinfectant Residuals SummaryYear	N N N	Your Water (highest result) 1.5 0.74	Range Low High ND - 1.5 0.11 - 0.74	MCLG 10 4	MCL 10	Likely Source of Contamination Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits. Erosion of natural deposits; water additive which promotes strong teeth;				
Nitrate, as Nitrogen (ppm)2023Inorganics ContaminantsFluoride (ppm)2022Radioactive ContaminantsAlpha emitters (pCi/L)2018Combined radium (pCi/L)2018,2022Uranium (pCi/L)2018Disinfectant Residuals Summary Contaminant (unite)Year						septic tanks, sewage; erosion of natural deposits. Erosion of natural deposits; water				
(ppm) 2023 Inorganics Contaminants Fluoride (ppm) 2022 Radioactive Contaminants Alpha emitters (pCi/L) 2018 Combined radium (pCi/L) 2018,2022 Uranium (pCi/L) 2018 Disinfectant Residuals Summary						septic tanks, sewage; erosion of natural deposits. Erosion of natural deposits; water				
Fluoride (ppm) 2022 Radioactive Contaminants Alpha emitters (pCi/L) 2018 Combined radium (pCi/L) 2018,2022 Uranium (pCi/L) 2018 Disinfectant Residuals Summary Contaminant (units) Year	N	0.74	0.11 - 0.74	4	4					
Radioactive Contaminants Alpha emitters (pCi/L) 2018 Combined radium (pCi/L) 2018,2022 Uranium (pCi/L) 2018 Disinfectant Residuals Summary Contaminant (units) Year	Ν	0.74	0.11 - 0.74	4	4					
Alpha emitters (pCi/L) 2018 Combined radium (pCi/L) 2018,2022 Uranium (pCi/L) 2018 Disinfectant Residuals Summary Contaminant (units) Year						discharge from fertilizer and aluminum factories.				
Combined radium (pCi/L) 2018,2022 Uranium (pCi/L) 2018 Disinfectant Residuals Summary Year		Radioactive Contaminants								
Uranium (pCi/L) 2018 Disinfectant Residuals Summary Contaminant (unite) Year	Ν	2.17	ND - 2.17	0	15	Erosion of natural deposits.				
Disinfectant Residuals Summary	Ν	3.0	ND - 3.0	0	5	Erosion of natural deposits.				
Contaminant (unite) Year	Ν	3.53	2.44- 3.53	0	20.1	Erosion of natural deposits.				
(Contaminant (linite)	Disinfectant Residuals Summary									
	MRDL iolation Y/N	Your Water (highest RAA)	Range Low High	MRDLG	MRDL	Likely Source of Contamination				
Chlorine (ppm) 2023	Ν	0.9	0.6-1.39	4	4.0	Water additive used to control microbes.				
Lead and Copper Contaminants										
Contaminant (units) Year Y Sampled W		Number of sites found	MCLG	AL	Likely Source of Contamination					

Copper (ppm)
(90th percentile)20210.54311.3AL=1.3Corrosion of household plumbing systems;
erosion of natural deposits.Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short
amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over a relatively short
level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

Violations

In 2023, Carolina Water Service, Inc. of North Carolina performed all required monitoring for contaminants. In addition, **no violations** from the North Carolina Department of Environmental Quality were received and we were in compliance with applicable testing and reporting requirements.



PFAS Testing

Carolina Water Service, Inc. of North Carolina continues efforts to conduct statewide drinking water testing for Per- and Polyfluoroalkyl Substances (PFAS). These man-made compounds are used in the manufacturing of products resistant to water, grease or stains including firefighting foams, cleaners, cosmetics, paints, adhesives and insecticides. PFAS can migrate into the soil, water, and air and is likely present in the blood of humans and animals all over the world. During 2023, the Environmental Protection Agency (EPA) had Health Advisory Levels (HALs) for GenX, PFBS, PFOA, and PFOS. On April 10, 2024, the EPA approved new drinking water standards for six PFAS including PFOA, PFOS, PFNA, PFHxS, PFBS, and GenX Chemicals. We are reviewing the components of the new rule and will take appropriate actions to meet new regulations.

Our focus will remain, as always, on supplying our customers with quality, reliable water service.

For the latest PFAS results, visit our website at <u>www.carolinawaterservicenc.com</u> and click Water Quality Reports under Water Safety. For more information visit <u>https//www.epa.gov/pfas</u>.

PFAS Results (All results reported as Nanograms per liter (ng/L)							
Contaminant	Sample Date	Range of Detect	Average	EPA HAL			
PFOS	8/8/23, 11/28/23, 12/7/23	ND —2.7	1.16	0.02			
PFOA	8/8/23, 11/28/23, 12/7/23	ND—2.2	0.78	0.004			
PFBS	8/8/23, 11/28/23, 12/7/23	0.69—3.1	1.67	2000			
РҒНрА	8/8/23, 11/28/23, 12/7/23	ND—1.5	0.11				
PFHxS	8/8/23, 11/28/23, 12/7/23	0.78—1.7	1.29				
PFHxA	8/8/23, 11/28/23, 12/7/23	ND—2.3	0.68				
NFDHA	11/28/2023	ND—0.32	0.064				
PFBA	11/28/2023	ND—4.2	0.84				
PFPeA	11/28/2023	ND—0.85	0.234				
Terms and Abbreviations:							

<u>Terms and Abbreviations:</u>

•GenX – Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)

•Health Advisory Level (HAL) – To provide Americans, including the most sensitive populations, with a margin of protection from a lifetime of exposure to GenX, PFBS, PFOA and PFOS from drinking water, EPA established health advisory levels.

•ND (No Detect) - No detection means the constituent is not detectable at the minimum reporting limit.

•NFDHA – Nonafluoro-3,6-dioxaheptanoic Acid

•Ng/L – Nanograms per liter (ng/L) which equals Parts per trillion (ppt) – One part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

PFBA – Perfluorobutanoic Acid

•PFBS – Perfluorobutanesulfonic Acid

•PFHpA – Perfluoroheptanoic Acid

- •PFHxA Perfluorohexanoic Acid
- •**PFHxS** Perfluorohexanesulfonic Acid
- •PFNA Perfluorononanoic Acid
- •PFOA Perfluorooctanoic Acid
- •PFOS Perfluorooctane Sulfonate
- •PFPeA Perfluoropentanoic Acid