

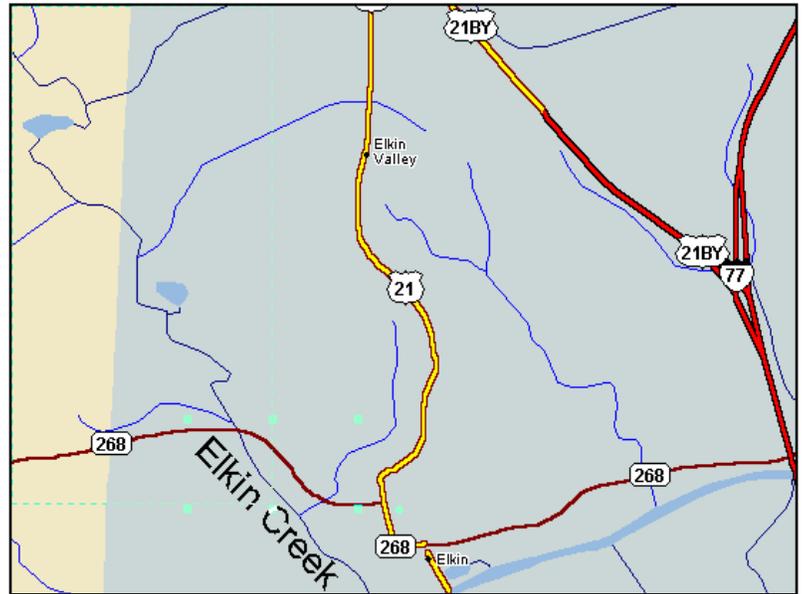
**Town of Elkin**  
**Water System ID# 02-86-020**  
**Quality Water Report**  
**2019 Annual Report**

## A Tradition of Quality

The Town of Elkin is pleased to present to our customers its 2019 Annual Water Quality Report. This report is designed to inform you about the quality water and service we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. Our water source is Elkin Creek. The water is treated at our 3 million gallon per day plant.

As water travels over the land our underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants.

It's important to remember that the presence of these contaminants does not necessarily pose a health risk. 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.



The Town of Elkin routinely monitors for over 80 contaminants to make sure your drinking water is safe according to Federal and State laws. This table shows the results of the contaminants detected for the period listed.

In the following table you will find terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

*Parts per million (ppm) or Milligrams per liter (mg/l)* – one part per million corresponds to one minute in tow years or a single penny in \$10,000.

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

*Maximum Contaminant Level (MCL)* – The “Maximum Allowed” is 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 “Goal” is 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.

*Maximum Residual Disinfectant Level Goal (MRDLG)* - The level of disinfectant in drinking water below which there is no known or expected risk to health.

*Maximum Residual Disinfection Level (MRDL)* - The highest level of a disinfectant allowed in drinking water.

*Nephelometric Turbidity Units (NTU)* - The measure for water clarity

*Treatment Technique (TT)*- A required process intended to reduce the level of a contaminant in drinking water.

### TEST RESULTS

Contaminant (Unit)	Violation Y/N	Level Detected	High	Low	MCLG	MCL	Likely Source of Contamination
<b>Microbiological Contaminants</b>							<b>2019</b>
Turbidity (NTU)*	N	0.09	0.15	0.03	N/A	TT=1.0	Soil Runoff
		100%				TT = percentage of samples < 0.3	
<b>Inorganic Contaminants</b>							<b>2019</b>
Lead (PPM) Sampled: July 2018	N	<0.003 90 <sup>th</sup> Percentile	<0.003	<0.003	0	AL = 0.015	Corrosion of household plumbing systems; erosion of natural deposits
Copper (PPM) Sampled: July 2018	N	<0.064 90 <sup>th</sup> Percentile	0.102	<0.050	1.3	AL = 1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride (PPM)	N	1.29	1.29	0.55	4.0	4.0	Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories
<b>Total Organic Carbon (TOC)</b>							<b>2019</b>
Total Organic Carbon – Treated Water (PPM)	N	1.1***	1.2	1.0	N/A	TT	Naturally present in the environment
<b>Disinfectant Residual Summary</b>							<b>2019</b>
Chlorine (PPM)	N	1.27***	1.60	0.79	MRDLG = 4	MRDL = 4	Water Additive used to control microbes
<b>Disinfection By-Product Contaminants</b>							<b>2019</b>
TTHM [Total Trihalomethanes] (PPB)							By-product of drinking water chlorination
161 Interstate Way [B01]	N	37.1***	46.9	27.6	0	80	
West Highland Apts [B02]	N	33.4***	45.2	20.6	0	80	
HAA [Total Haloacetic Acids] (PPB)							By-product of drinking water chlorination
161 Interstate Way [B01]	N	23.0***	30.6	14.5	0	60	
West Highland Apts [B02]	N	22.3***	33.5	12.5	0	60	

\* Turbidity is the measure of the cloudiness of the water. The Town monitors Turbidity because it is a good indicator of the effectiveness of our filter treatment system. The turbidity rule requires that 95% or more of the monthly samples must be below 0.3 NTU.

\*\* Our water system used an Alternate Compliance Criteria (ACC) as the method used to comply with disinfectants/disinfection by-product treatment technique requirements. The treated water TOC is required to be less than 2.0 mg/l.

\*\*\* Running Annual Average.

## What Does This Mean?

As you can see by the table, our system did not exceed any drinking water standards. We're proud that your drinking water meets or exceeds all Federal and State requirements.

We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water IS SAFE at these levels.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 the 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 at 1-800-426-4791.

MCLs are set at very stringent levels. To understand the possible health effects described for may regulated constituents, a person would have to drink 2 liters of water every date at the MCL level for a lifetime to have a one-in-a-million change of having the descried health effect.

### Elkin Water Treatment Plant Operation Receives State Award

The Elkin Water Treatment Plant was a recipient of the North Carolina Area Wide Optimization Program (AWOP) award in 2019. AWOP is a unique partnership among EPA, State agencies, and supporting organizations to enhance public health protection through optimizing the performance and operations of existing treatment facilities. The operation of the Elkin Water Treatment Plant exceeded the goals established for the AWOP which are more stringent than the required treatment standards.

### 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 Town of Elkin 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>.

### Source Water Assessment

Everyone wants clean, safe drinking water and we assume this naturally resource will always be available to us. However, surface water sources (lakes, rivers, streams, reservoirs) can be threatened by many potential contaminant sources (PCS). These include urban storm water runoff, permitted wastewater discharges, runoff produced by agricultural activity and land clearing for development. The Public Water Supply Section of the NC Department of Environment and Natural Resources conducted a source water assessment of Elkin Creek, our source water supply. The source water assessment is a determination of the susceptibility of Elkin Creek's potential to become contaminated by potential contaminant sources. The susceptible rating is 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 watershed and its delineated assessment area). The rating of our source water is as follows:

Source Name	Inherent Vulnerability Rating	Contaminant Rating	Susceptibility Rating
Yadkin River	Higher	Moderate	Higher
Big Elkin Creek	Moderate	Lower	Moderate

This information was obtained from the SWAP report dated September 5, 2017. The complete SWAP Assessment report for the Elkin Water Treatment Plant may be viewed on the Web at: [www.ncwater.org/pws/swap](http://www.ncwater.org/pws/swap). 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 the water system name and 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 systems’ potential to become contaminated by PCS’s in the assessment area.

### **Special Concerns**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised person such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune systems 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)

### **Consumer Views Welcome**

If you have any questions about this report or concerning your water utility, please contact us at 794-6464. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of the Town’s

regularly scheduled meetings. They are held the second Monday of each month at 7:00 pm.

### **En Espanol**

*Este folleto tiene information  
Importante acerca de la calidad del  
Aqua que provee la Ciudad de Elkin  
Si necesita mayor information acerca  
Del contendito de este folleto ll hamar al  
835-9800, puede ayudarlo*

