"2019" Annual Drinking Water Quality Report "Broadway Water Association"

Water System Number: "01-97-035"

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 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 Broadway Water Association at (336) 667-1483. 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 Broadway Water Office on the third Monday of each month at 5:00 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. [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 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

Broadway Water Association purchases water from the Town of North Wilkesboro which is treated surface water from the Reddies River located just above the dam on 13th St. Also we purchase water from the Town of Wilkesboro which is treated surface water from the Yadkin River located adjacent to North College St.

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 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 [Broadway Water] 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)

AP Report Date	ing	Susceptibility Rating	Source Name
2017		Moderate	Town of North Wilkesboro
mber 2017		Moderate	Town of Wilkesboro
		Wioderate	TOWN OF WHICESOOF

The complete SWAP Assessment report for [Broadway Water] may be viewed on the Web at: 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. 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" <u>does not</u> 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 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.).

Violations that Your Water System Received for the Report Year

During (2019), or during any compliance period that ended in (2019), we received a <u>no</u> violation that covered the time period of .

Treatment Technique Violations

TT Viola	ion Explanation	Length of Violation	Steps Taken to Correct the Violation	Health Effects Language
N/A				

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 <u>detected</u> in the last round of sampling for each particular contaminant group. The presence of contaminants does <u>not</u> 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.

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulations are warranted.

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.

Parts per trillion (ppt) or Nanograms per liter (nanograms/L) - One part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) or Picograms per liter (picograms/L) - One part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

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.

Nephelometric Turbidity Unit (NTU) - Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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.

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

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	0	0	I positive sample / month* Note: If either an original routine sample and/or its repeat	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (presence or absence)	N	0	0	samples(s) are fecal coliform or <i>E. coli</i> positive, a Tier 1 violation exists.	Human and animal fecal waste

^{*} If a system collecting fewer than 40 samples per month has two or more positive samples in one month, the system has a MCL violation.

Asbestos Contaminant

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Ra Low	inge High	MCLG	MCL	Likely Source of Contamination
Total Asbestos (MFL)	11/7/13	N	0	.1	7	7	7	Decay of asbestos cement water mains; erosion of natural deposits

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)	8/2017	.218	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90th percentile)	8/2017	.003	0	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits

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Disinfectant Residuals Summary

	Year Sampled	MRDL Violation Ý/N	Your Water (highest RAA)	Range Low High	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	2019	N	1.8	.50 1.86	4	4.0	Water additive used to control microbes

Stage 1 Disinfection Byproduct Compliance - Based upon Running Annual Average (RAA)

Disinfection Byproduct	Year Sampled	MCL Violation Y/N	Your Water (highest RAA)	Range Low High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb)	2019	N	24	10 35	N/A	80	Byproduct of drinking water disinfection
HAA5 (ppb)	2019	N	27	10 53	N/A	60	Byproduct of drinking water disinfection

^{**}Special Note: If TTHMs are detected in any individual sample above 0.080 mg/L (ppm), or if HAA5s are detected in any individual sample above 0.060 mg/L (ppm), the corresponding health effects language below is required, even if their running annual averages (RAAs) are below the TTHM MCLs of 0.080 mg/L (80 ppb) or the HAA5 MCL of 0.060 mg/L (60 ppb). (Remove health effects language below, if not needed.)

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.

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
ГТНМ (ррb)	2019	N	.0242	.0103 .035	N/A	80	Byproduct of drinking water disinfection
HAA5 (ppb)	2019	N	.0306	.01 .0534	N/A	60	Byproduct of drinking water disinfection
3.0							

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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.

Consumer Confidence Report Certification Form

Water System Name: Broadway Water Association Water System No 01-97-035 Report Year: 2019 Population Served: 3920 The Community Water System (CWS) named above hereby confirms that all provisions under 40 CFR parts 141 and 142 requiring the development of, distribution of, and notification of a consumer confidence report have been executed. Further, the CWS certifies the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the primacy agency by their NC certified laboratory. In addition, if this report is being used to meet Tier 3 Public Notification requirements, as denoted by the checked box below, the CWS certifies that public notification has been provided to its consumers in accordance with the requirements of 40 CFR 141.204(d). Certified by: Name: Jeff Carty Title: ORC **Signature:** _______ **Phone #:** _____ 336-667-1483 Delivery Achieved Date: 5/26/20 Date Reported to State: 6/12/20 ☐ The CCR includes text which provides mandated Public Notice for a monitoring violation (check box, if yes) Check all methods used for distribution (see instructions on back for delivery requirements and methods): ☐ Paper copy to all xNotification of Availability of Paper Copy (other than in the CCR itself) Notification Method US Mail with Bill (i.e. US Mail, door hanger) URL: http://broadwayh2o.com/water-quality-report xNotification of CCR URL Notification Method On Bill (i.e. on bill, bill stuffer, separate mailing, email) Direct email delivery of CCR (attached? or embedded?) Notification Method (i.e. on bill, bill stuffer, separate mailing) □ Newspaper (attach copy) What Paper? ______Date Published: _____ Notification Method _____ (i.e. US Mail, on bill, bill stuffer, door hanger, a postcard dedicated to the CCR, or email) □ "Good faith" efforts (in addition to the above required methods) were used to reach non-bill paying consumers such as industry employees, apartment tenants, etc. Extra efforts included the following methods: posting the CCR on the Internet at URL: http://BroadwayH2O.com/water-quality- report in mailing the CCR to postal patrons within the service area advertising the availability of the CCR in news media (attach copy of announcement) □ publication of the CCR in local newspaper (attach copy) □ posting the CCR in public places such as: (attach list if needed) delivery of multiple copies to single bill addresses serving several persons such as: apartments, businesses, and large private employers

<u>Note</u>: Use of social media (e.g., Twitter or Facebook) or automated phone calls do not meet existing CCR distribution methods under the Rule.

□ delivery to community organizations such as: (attach list if needed)

2019 Annual Drinking Water Quality Report Town of Wilkesboro

Water System Number: NC0197025

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 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 Alan Parker at the Wilkesboro Water Filtration Plant (336)-838-4631. 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 Town Board Meetings. They are held on the first Monday of each month, 5:30pm at the Wilkesboro Town Hall.

What EPA Wants You to Know

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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 Wilkesboro 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.

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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.

. Radiological Contaminants

Contaminant (units)	Sample	Violation MCI G MCI		MCI.	Likely Source of Contamination		
	Date			Date		Low High	Mede
Alpha emitters (pCi/L)	07/12/12	N	ND	ND ND	0	15	Erosion of natural deposits
Combined radium (pCi/L)	05/07/15	N	< 0.1	< 0.1 < 0.1	0	5	Erosion of natural deposits
Uranium (pCi/L)	07/12/12	N	ND	ND ND	0	20.1	Erosion of natural deposits

^{*} Note: The MCL for beta/photon emitters is 4 mrem/year. EPA considers 50 pCi/L to be the level of concern for beta particles.

Total Organic Carbon (TOC)

Contaminant (units)	TT Violation Y/N	Your Water (RAA Removal Ratio)	Range Monthly Removal Ratio Low - High	MCLG	ТТ	Likely Source of Contamination	Compliance Method (Step 1 or ACC#)
Total Organic Carbon (removal ratio) (TOC)-TREATED	N	1.0	1.0 1.1	N/A	ТТ	Naturally present in the environment	ACC 2

^{*}Wilkesboro Utilizes Alternative Compliance method 2 in place of Step 1 Removal Ratios

Alternative Compliance Criteria (ACC)
Source Water TOC < 2.0 mg/L
Treated Water TOC < 2.0 mg/L
Source Water SUVA ≤ 2.0 L/mg-m
Treated Water SUVA ≤ 2.0 L/mg-m
Treated Water Alkalinity < 60 mg/L (for softening systems only)
THM & HAA RAA's ≤ ½ MCL & uses only chlorine
Source TOC RAA < 4.0 mg/L and Source Alkalinity > 60 mg/L and THM & HAA RAA's ≤ ½ MCL

Disinfectant Residuals Summary

	Year Sampled	MRDL Violation Y/N	Your Water (highest RAA)	Ra Low	nge High	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	2019	N	1.6	0.7	2.1	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)	Rai Low	nge High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb)			x			N/A	80	Byproduct of drinking water disinfection
BO1	2019	N	62	33	87		- FE ST	
BO2	2019	N	49	17	61			
HAA5 (ppb)						N/A	60	Byproduct of drinking water disinfection
B01	2019	N	26	20	27			
BO2	2019	N	28	18	29			8

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.
01/2020

Tables of Detected Contaminants

REVISED TOTAL COLIFORM RULE:

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
E. coli (presence or absence)	N	0	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> Note: If either an original routine sample and/or its repeat samples(s) are <i>E. coli</i> positive, a Tier I violation exists.	Human and animal fecal waste

^{*} If a system collecting fewer than 40 samples per month has two or more positive samples in one month, an assessment is required.

Turbidity*

- Diesel						
Contaminant (units)	Treatment Technique (TT) Violation Y/N	Your Water	MCLG	Treatment Technique (TT) Violation if:	Likely Source of Contamination	
Turbidity (NTU) - Highest single turbidity measurement	N	0.08 NTU	N/A	Turbidity > 1 NTU		
Turbidity (NTU) - Lowest monthly percentage (%) of samples meeting turbidity limits	N	100%	N/A	Less than 95% of monthly turbidity measurements are ≤ 0.15 NTU	Soil runoff	

^{*} Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. The turbidity rule requires that 95% or more of the monthly samples must be less than or equal to 0.15 NTU.

Inorganic Contaminants

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Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Low	nge High	MCLG	MCL	Likely Source of Contamination
Fluoride (ppm)	11/07/19	N	0.70	0.56	0.78	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories

Nitrate/Nitrite Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination
Nitrate (as Nitrogen) (ppm)	02/07/19	N	ND	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

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)	06/01/17- 09/30/17	< 0.050	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 th percentile)	06/01/17- 09/30/17	< 3	0	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits

01/2020

The PWS Section requires monitoring for other misc. contaminants, some for which the EPA has set national secondary drinking water standards (SMCLs) because they may cause cosmetic effects or aesthetic effects (such as taste, odor, and/or color) in drinking water. The contaminants with SMCLs normally do not have any health effects and normally do not affect the safety of your water.

Other Miscellaneous Water Characteristics Contaminants

Contaminant (units)	Sample Date	Your		nge	SMCL
		Water	Low	High	SIVICE
Sodium (ppm)	11/07/19	16.0	16.0	16.0	N/A
Sulfate (ppm)	11/07/19	19.3	19.3	19.3	250 mg/L
pH	01/01/19-12/31/19	8.5	8.4	8.8	6.5 to 8.5

Cryptosporidium

Our System monitored for Cryptosporidium from October 2016 through September 2018 and detected levels of 0.09 (oo)cysts/L in 5 of 24 samples collected from the Yadkin river.

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes Cryptosporidium, the most commonly-used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

"2019" Annual Drinking Water Quality Report "Town of North Wilkesboro"

Water System Number: "01-97-010"

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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. [Town of North Wilkesboro] 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 drawn from the Reddies River.

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 04/2015

Tables of Detected Contaminants

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	0	0	I positive sample / month* Note: If either an original routine sample and/or its repeat	Naturally present in the environment
Fecal Coliform or E. coli (presence or absence)	N	0	0	samples(s) are fecal coliform or E. coli positive, a Tier 1 violation exists.	Human and animal fecal waste

^{*} If a system collecting fewer than 40 samples per month has two or more positive samples in one month, the system has a MCL violation.

Turbidity*

Contaminant (units)	Treatment Technique (TT) Violation Y/N	Your Water	MCLG	Treatment Technique (TT) Violation if:	Likely Source of Contamination
Turbidity (NTU) - Highest single turbidity measurement N		.3 NTU	.300	Turbidity > 1 NTU	
Turbidity (NTU) - Lowest monthly percentage (%) of samples meeting turbidity limits	N	100%	N/A	Less than 95% of monthly turbidity measurements are ≤ 0.3 NTU	Soil runoff

^{*} Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. The turbidity rule requires that 95% or more of the monthly samples must be less than or equal to 0.3 NTU.

Inorganic Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination
Antimony (ppb)	5/8/2019	N	ND		6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)	5/8/2019	N	ND		0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	5/8/2019	N	ND		2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium (ppb)	5/8/2019	N	ND		4	4	Discharge from metal refineries and coal- burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	5/8/2019	N	ND		5	5	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium (ppb)	5/8/2019	N	ND		100	100	Discharge from steel and pulp mills; erosion of natural deposits
Cyanide (ppb)	5/8/2019	N	ND	7	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride (ppm)	5/8/2019	N	.83 MG/L		4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (inorganic) (ppb)	5/8/2019	N	ND		2	2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Selenium (ppb)	5/8/2019	N	ND		50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium (ppb)	5/8/2019	N	ND		0.5	2	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

Nitrate/Nitrite Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination
Nitrate (as Nitrogen) (ppm)	5/8/2019	N	ND	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (as Nitrogen) (ppm)	5/8/2019	N	ND	N/A	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

Asbestos Contaminant

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination
Total Asbestos (MFL)	11/13/13	N	ND		7	7	Decay of asbestos cement water mains; erosion of natural deposits

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination
2,4-D (ppb)	08/23/17	N	ND		70	70	Runoff from herbicide used on row crop
2,4,5-TP (Silvex) (ppb)	08/23/17	N	ND -		50	50	Residue of banned herbicide
Alachlor (ppb)		N			0	2	Runoff from herbicide used on row crop
Atrazine (ppb)	08/23/17	N	ND		3	3	Runoff from herbicide used on row crop
Benzo(a)pyrene (PAH) (ppt)	08/23/17	N	ND		0	200	Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)	08/23/17	N	ND		40	40	Leaching of soil furnigant used on rice and alfalfa
Chlordane (ppb)	08/23/17	N	ND		0	2	Residue of banned termiticide
Dalapon (ppb)	08/23/17	N	ND		200	200	Runoff from herbicide used on rights of way
Di(2-ethylhexyl) adipate (ppb)	08/23/17	N	ND		400	400	Discharge from chemical factories
Di(2-ethylhexyl) phthalate (ppb)	08/23/17	N	ND		0	6	Discharge from rubber and chemical factories
DBCP [Dibromochloropropane] (ppt)		N			0	200	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (ppb)	08/23/17	N	ND		7	7	Runoff from herbicide used on soybeans and vegetables
Endrin (ppb)	08/23/17	N	ND		2	2	Residue of banned insecticide
EDB [Ethylene dibromide] (ppt)	08/23/17	N	ND		0	50	Discharge from petroleum refineries
Heptachlor (ppt)	08/23/17	N	ND		0	400	Residue of banned pesticide
Heptachlor epoxide (ppt)	08/23/17	N	ND		0	200	Breakdown of heptachlor
Hexachlorobenzene (ppb)	08/23/17	N	ND		0	1	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclo- pentadiene (ppb)	08/23/17	N	ND		50	50	Discharge from chemical factories
Lindane (ppt)		N			200	200	Runoff/leaching from insecticide used or cattle, lumber, gardens
Methoxychlor (ppb)	08/23/17	N	ND		40	40	Runoff/leaching from insecticide used or fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate] (ppb)	08/23/17	N	ND		200	200	Runoff/leaching from insecticide used or apples, potatoes and tomatoes
PCBs [Polychlorinated biphenyls] (ppt)	08/23/17	N	ND		0	500	Runoff from landfills; discharge of waste chemicals

Pentachlorophenol (ppb)	08/23/17	N	ND	0	1	Discharge from wood preserving factories
Picloram (ppb)	08/23/17	N	ND	500	500	Herbicide runoff
Simazine (ppb)	08/23/17	N	ND	4	4	Herbicide runoff
Toxaphene (ppb)	08/23/17	N	ND	 0	3	Runoff/leaching from insecticide used on cotton and cattle

Volatile Organic Chemical (VOC) Contaminants

Contaminant (units)	Sample Date	MCL Violati on Y/N	Your Water	Ran Low	nge High	MCLG	MCL	Likely Source of Contamination
Benzene (ppb)	5/8/19	N	ND			0	5	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride (ppb)	5/8/19	N	ND			0	5	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	5/8/19	N	ND			100	100	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene (ppb)	5/8/19	N	ND			600	600	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	5/8/19	N	ND			75	75	Discharge from industrial chemical factories
1,2 - Dichloroethane (ppb)	5/8/19	N	ND			0	5	Discharge from industrial chemical factories
1,1 - Dichloroethylene (ppb)	5/8/19	N	ND			7	7	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene (ppb)	5/8/19	N	ND			70	70	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene (ppb)	5/8/19	N	ND			100	100	Discharge from industrial chemical factories
Dichloromethane (ppb)	5/8/19	N	ND			0	5	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane (ppb)	5/8/19	N	ND			0	5	Discharge from industrial chemical factories
Ethylbenzene (ppb)	5/8/19	N	ND			700	700	Discharge from petroleum refineries
Styrene (ppb)	5/8/19	N	ND			100	100	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene (ppb)	5/8/19	N	ND			0	5	Discharge from factories and dry cleaners
1,2,4 -Trichlorobenzene (ppb)	5/8/19	N	ND			70	70	Discharge from textile-finishing factories
1,1,1 - Trichloroethane (ppb)	5/8/19	N	ND			200	200	Discharge from metal degreasing sites and other factories
1,1,2 -Trichloroethane (ppb)	5/8/19	N	ND			3	5	Discharge from industrial chemical factories
Trichloroethylene (ppb)	5/8/19	N	ND			0	5	Discharge from metal degreasing sites and other factories
Toluene (ppm)	5/8/19	N	ND			1	1	Discharge from petroleum factories
Vinyl Chloride (ppb)	5/8/19	N	ND			0	2	Leaching from PVC piping; discharge from plastics factories
Xylenes (Total) (ppm)	5/8/19	N	ND			10	10	Discharge from petroleum factories; discharge from chemical 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)	08/22/17	.202	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 th percentile)	08/22/17	0	0	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits

Radiological Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	+Range Low High	MCLG	MCL	Likely Source of Contamination
Alpha emitters (pCi/L)	04/12/17	N	ND		0	15	Erosion of natural deposits
Beta/photon emitters pCi/L)	04/12/17	N	ND		0	50 *	Decay of natural and man-made deposits
Combined radium (pCi/L)	04/12/17	N	ND		0	5	Erosion of natural deposits
Uranium (pCi/L)	04/12/17	N	ND		0	20.1	Erosion of natural deposits

^{*} Note: The MCL for beta/photon emitters is 4 mrem/year. EPA considers 50 pCi/L to be the level of concern for beta particles.

Total Organic Carbon (TOC)

Contaminant (units)	TT Violation Y/N	Your Water (RAA Removal Ratio)	Range Monthly Removal Ratio Low - High	MCLG	TT	Likely Source of Contamination	Compliance Method (Step 1 or ACC#)
Total Organic Carbon (removal ratio) (TOC)-TREATED	N	.51	0-<1.0	N/A	TT	Naturally present in the environment	Step 1

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	1.53	.5-2.0	4	4.0	Water additive used to control microbes

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

Disinfection Byproduct	Year Sampled	MCL Violation Y/N	Your Water (highest LRAA)	Range Low High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb)	2019	N	25	30-50	N/A	80	Byproduct of drinking water disinfection
HAA5 (ppb)	2019	N	30	21-35	N/A	60	Byproduct of drinking water disinfection

The PWS Section requires monitoring for other misc. contaminants, some for which the EPA has set national secondary drinking water standards (SMCLs) because they may cause cosmetic effects or aesthetic effects (such as taste, odor, and/or color) in drinking water. The contaminants with SMCLs normally do not have any health effects and normally do not affect the safety of your water.

Other Miscellaneous Water Characteristics Contaminants

Contaminant (units)	Sample Date	Your Water	Range Low High	SMCL
Sodium (ppm)	5/8/19	13.4	NA	N/A
Sulfate (ppm)	5/8/19	0		250 mg/L
рН	5/8/19	6.6	NA	6.5 to 8.5

Water System Name:Town of North Wilkesboro
Water System No.: 01 - 97-010 Report Year: 2019 Population Served: 4245
The Community Water System (CWS) named above hereby confirms that all provisions under 40 CFR parts 141 and 142 requiring the development of, distribution of, and notification of a consumer confidence report have been executed. Further, the CWS certifies the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the primacy agency by their NC certified laboratory. In addition, if this report is being used to meet Tier 3 Public Notification requirements, as denoted by the checked box below, the CWS certifies that public notification has been provided to its consumers in accordance with the requirements of 40 CFR 141.204(d).
Certified by: Name: Joe Patrick Title: ORC
Signature: Sherman Joe Patrick Phone #: (336)838-2371
Delivery Achieved Date: 3-17-20 Date Reported to State: 3-18-20
☐ The CCR includes text which provides mandated Public Notice for a monitoring violation (check box, if yes)
Check all methods used for distribution (see instructions on back for delivery requirements and methods): Paper copy to all Notification of Availability of Paper Copy (other than in the CCR itself) Notification Method (i.e. US Mail, door hanger) *Notification of CCR URL URL: http://www.north-wilkesboro.com/forms/2019_ccr.pdf
Notification Method On Bill (i.e. on bill, bill stuffer, separate mailing, email) Direct email delivery of CCR (attached? or embedded?)
Notification Method
Notification Method (i.e. US Mail, on bill, bill stuffer, door hanger, a postcard dedicated to the CCR, or email)
□ "Good faith" efforts (in addition to the above required methods) were used to reach non-bill paying consumers such as industry employees, apartment tenants, etc. Extra efforts included the following methods:
□ posting the CCR on the Internet at URL:
□ mailing the CCR to postal patrons within the service area
 advertising the availability of the CCR in news media (attach copy of announcement)
□ publication of the CCR in local newspaper (attach copy)
×posting the CCR in public places such as: (attach list if needed) Town Hall and Public Library
 delivery of multiple copies to single bill addresses serving several persons such as: apartments, businesses, and large private employers
 delivery to community organizations such as: (attach list if needed)
<u>Note</u> : Use of social media (e.g., Twitter or Facebook) or automated phone calls do not meet existing CCR distribution methods under the Rule.