

2016 Annual Drinking Water Quality Report

Yadkin County Line

Water System Number: NC 30-99-023

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

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. Yadkin County 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

Yadkin County purchases its water from The Town of Yadkinville. The Town of Yadkinville utilizes a conventional surface water treatment plant to supply water to its customers. Water is pumped from the South Deep Creek into the Town's Water Treatment Plant located at 2820 Highway 601 South, Yadkinville, NC. At the present time the Water Plant is permitted by the State of North Carolina to treat no more than 1.67 million gallons per day (MGD).

In order to treat more than the permitted 1.67 MGD, the state of North Carolina has mandated that the Town construct an off-stream raw water reservoir. This reservoir will ensure that the Town of Yadkinville will have an adequate water supply during drought conditions. The reservoir will also ensure a clean water supply in the event that South Deep Creek were to be contaminated for any reason.

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 Yadkin County 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 |
|------------------|-----------------------|------------------|
| South Deep Creek | Moderate | July 2015 |
| Well #1 | Moderate | July 2015 |

The complete SWAP Assessment report for Yadkin County 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” 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. You can help protect your community’s drinking water source(s) in several ways: 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.

Violations that Your Water System Received for the Report Year

We are proud to report that your water met all the established drinking water standards.

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, 2016.** 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.

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 January – June 2016

Microbiological Contaminants in the Distribution System

| Contaminant (units) | MCL Violation Y/N | Your Water | MCLG | MCL | Likely Source of Contamination |
|--|-------------------|------------|------|---|--------------------------------------|
| Total Coliform Bacteria (presence or absence) | N | Absent | 0 | 1 positive sample / month* | Naturally present in the environment |
| Fecal Coliform or <i>E. coli</i> (presence or absence) | N | Absent | 0 | Note: If either an original routine sample and/or its repeat 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.

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) | 5/31/16 | 0.015 ppm | 0 | 1.3 | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits |
| Lead (ppb) (90 th percentile) | 5/31/16 | ND | 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 | | MRDLG | MRDL | Likely Source of Contamination |
|----------------|----------------|--------------------|--------------------------|-------|------|-------|------|---|
| | | | | Low | High | | | |
| Chlorine (ppm) | Jan /June 2016 | N | 0.75 ppm | 0.3 | 1.39 | 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 | | MCLG | MCL | Likely Source of Contamination |
|------------------------|--------------|-------------------|---------------------------|-------|----------|------|-----|--|
| | | | | Low | High | | | |
| TTHM (ppb) | | | | | | N/A | 80 | Byproduct of drinking water disinfection |
| Location | | | | | | | | |
| B01 | 2016 | | 47.4 ppb | 36.6 | 58.1 ppb | | | |
| HAA5 (ppb) | | | | | | N/A | 60 | Byproduct of drinking water disinfection |
| Location | | | | | | | | |
| B01 | 2016 | | 41.1 ppb | 25 | 57.2 ppb | | | |

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.*

2016 Annual Drinking Water Quality Report

Town of Yadkinville

Water System Number: NC 0299015

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 Joel Harris at (336) 463-2176. 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 Yadkinville Town Hall located at 213 Van Buren Street Yadkinville, NC. The meetings are held the first Monday night of each month at 7:00 PM.**

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When You Turn on Your Tap, Consider the Source

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04/2015

to its customers. Water is pumped from the South Deep Creek into the Town's off Stream Reservoir, then from there back to the Water Treatment Plant located at 2820 Highway 601 South, Yadkinville, NC 27055. At the present time, the water plant is permitted by the State of North Carolina to treat no more than 1.67 million gallons per day (MGD).

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We are proud to report that the Town of Yadkinville's water met or exceeded all established drinking water standards.

Water Quality Data Tables of Detected Contaminants

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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.

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Tables of Detected Contaminants

Microbiological Contaminants in the Distribution System

| Contaminant (units) | MCL Violation Y/N | Your Water | MCLG | MCL | Likely Source of Contamination |
|--|-------------------|------------|------|---|--------------------------------------|
| Total Coliform Bacteria (presence or absence) | N | Absent | 0 | 1 positive sample / month* Note: If either an original routine sample and/or its repeat samples(s) are fecal coliform or <i>E. coli</i> positive, a Tier 1 violation exists. | Naturally present in the environment |
| Fecal Coliform or <i>E. coli</i> (presence or absence) | N | Absent | 0 | | Human and animal fecal waste |

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 | .29 NTU | N/A | Turbidity > 1 NTU | Soil runoff |
| 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 | |

* 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 | | MCLG | MCL | Likely Source of Contamination |
|---------------------|-------------|-------------------|------------|-------|------|------|-----|---|
| | | | | Low | High | | | |
| Fluoride (ppm) | 10/06/16 | N | 0.6 ppm | N/A | N/A | 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 | | MCLG | MCL | Likely Source of Contamination |
|-----------------------------|-------------|-------------------|------------|-------|------|------|-----|---|
| | | | | Low | High | | | |
| Nitrate (as Nitrogen) (ppm) | 2016 | N | 1.1 ppm | N/A | N/A | 10 | 10 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |

Nitrate: Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

Synthetic Organic Chemical (SOC) Contaminants Including Pesticides and Herbicides

| Contaminant (units) | Sample Date | MCL Violation Y/N | Your Water | Range | | MCLG | MCL | Likely Source of Contamination |
|---------------------|-------------|-------------------|------------|-------|------|------|-----|---|
| | | | | Low | High | | | |
| Dalapon (ppb) | 7/07/16 | N | 1.2 ppb | N/A | N/A | 200 | 200 | Runoff from herbicide used on rights of way |

Volatile Organic Chemical (VOC) Contaminants

| Contaminant (units) | Sample Date | MCL Violation Y/N | Your Water | Range | | MCLG | MCL | Likely Source of Contamination |
|------------------------------|-------------|-------------------|------------|-------|---------|------|-----|--|
| | | | | Low | High | | | |
| 1,1 - Dichloroethylene (ppb) | 2016 | N | 2.32 ppb | 0 | 4.2 ppb | 7 | 7 | Discharge from industrial chemical factories |

Unregulated VOC Contaminants

| Contaminant (units) | Sample Date | Your Water (average) | Range | |
|----------------------|-------------|----------------------|-------|---------|
| | | | Low | High |
| Chloroform | 2016 | 32.6 ppb | 27.8 | 41 ppb |
| Bromodichloromethane | 2016 | 6.83 ppb | 4.4 | 9.9 ppb |
| Dibromochloromethane | 2016 | 0.73 ppb | 0.0 | 1.9 ppb |

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) | 7/15 - 8/31 - 2014 | 0.034 ppm | 0 | 1.3 | AL=1.3 | Corrosion of household plumbing systems; erosion of natural deposits |
| Lead (ppb) (90 th percentile) | 7/15 - 8/31 - 2014 | 6 ppb | 1 | 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 | | MCLG | MCL | Likely Source of Contamination |
|-------------------------|-------------|-------------------|--------------|-------|-------------|------|------|--------------------------------|
| | | | | Low | High | | | |
| Combined radium (pCi/L) | 2015 | N | 0.285 pCi/L | 0 | 1.14 pCi/L | 0 | 5 | Erosion of natural deposits |
| Uranium (pCi/L) | 2015 | N | 0.4405 pCi/L | 0 | 0.628 pCi/L | 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 | 1.55 | 1.04 - 2.86 | N/A | TT | Naturally present in the environment | Alt. 1 |

Disinfectant Residuals Summary

| | Year Sampled | MRDL Violation Y/N | Your Water (highest RAA) | Range | | MRDLG | MRDL | Likely Source of Contamination |
|----------------|--------------|--------------------|--------------------------|-------|----------|-------|------|---|
| | | | | Low | High | | | |
| Chlorine (ppm) | 2016 | N | 0.95 ppm | 0.31 | 1.95 ppm | 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 | | MCLG | MCL | Likely Source of Contamination |
|------------------------|--------------|-------------------|---------------------------|-------|--------|------|-----|--|
| | | | | Low | High | | | |
| TTHM (ppb) | | | | | | N/A | 80 | Byproduct of drinking water disinfection |
| Location | | | | | | | | |
| B01 | 2016 | N | 42 ppb | 37 | 42 ppb | N/A | 80 | |
| B02 | 2016 | N | 42 ppb | 35 | 42 ppb | N/A | 80 | |
| HAA5 (ppb) | | | | | | N/A | 60 | Byproduct of drinking water disinfection |
| Location | | | | | | | | |
| B01 | 2016 | N | 39 ppb | 33 | 39 ppb | N/A | 60 | |
| B02 | 2016 | N | 45 ppb | 38 | 45 ppb | | | |

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.*

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 | | SMCL |
|---------------------|-------------|------------|-------|----------|------------|
| | | | Low | High | |
| Sodium (ppm) | 2016 | 11.4 ppm | 7.8 | 14.9 ppm | N/A |
| pH | 2016 | 7.5 | 7.2 | 7.7 | 6.5 to 8.5 |