

## Consumer Confidence Report Certification Form

Water System Name: Town of Marshville

Water System No.: 01 - 90 - 015 Report Year: 2017 Population Served: 2475

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: Tommy E Kost

Title: Water ORC

Signature: Tommy E Kost

Phone #: 704-984-0969 704-624-2515

Delivery Achieved Date: June 30, 2018

Date Reported to State: June 30, 2018

☒ The CCR includes the 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 US Mail ☐ Hand Delivery ☐

☐ 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: [https://www.marshville.org/vertical/sites/%7B72E7832C-85F3-4203-A43B-930F202C41D1%7D/uploads/CCR\\_17.pdf](https://www.marshville.org/vertical/sites/%7B72E7832C-85F3-4203-A43B-930F202C41D1%7D/uploads/CCR_17.pdf)

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: [https://www.marshville.org/vertical/sites/%7B72E7832C-85F3-4203-A43B-930F202C41D1%7D/uploads/CCR\\_17.pdf](https://www.marshville.org/vertical/sites/%7B72E7832C-85F3-4203-A43B-930F202C41D1%7D/uploads/CCR_17.pdf)

☐ 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, Community Center

☐ 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)

**Note:** Use of social media (e.g., Twitter or Facebook) or automated phone calls DO NOT meet existing CCR distribution methods under the Rule.



## INSTRUCTIONS

### Submittal of your CCR and Certification Form to the Public Water Supply Section

Beginning in 2018, the CCR for report year 2017 and future years must be submitted using our new ECert Online Certification application. You must submit your CCR and Certification form using the links provided below. Follow the directions to ensure efficient tracking and receipt of your submittal, and expedited review of report data by the Public Water Supply (PWS) Section for compliance with state and federal regulations.

➤ **CCR Template:** [http://ncdenr.s3.amazonaws.com/s3fs-](http://ncdenr.s3.amazonaws.com/s3fs-public/Water%20Resources/files/pws/pnrule/CCR_Template_(with%20Certification%20&%20ECert%20Inst.)_lfr.doc)

[public/Water%20Resources/files/pws/pnrule/CCR\\_Template\\_\(with%20Certification%20&%20ECert%20Inst.\)\\_lfr.doc](http://ncdenr.s3.amazonaws.com/s3fs-public/Water%20Resources/files/pws/pnrule/CCR_Template_(with%20Certification%20&%20ECert%20Inst.)_lfr.doc)

➤ **ECERT Access Instructions:** [http://ncdenr.s3.amazonaws.com/s3fs-](http://ncdenr.s3.amazonaws.com/s3fs-public/Water%20Resources/files/pws/compliance/ECERT_Access%20Instructions.pdf)

[public/Water%20Resources/files/pws/compliance/ECERT\\_Access%20Instructions.pdf](http://ncdenr.s3.amazonaws.com/s3fs-public/Water%20Resources/files/pws/compliance/ECERT_Access%20Instructions.pdf)

➤ **ECERT Online Certification:** <https://pws.ncwater.org/ECERT/pages/default.aspx>

For assistance with accessing ECERT please contact staff at: [PWSS.CCR@ncdenr.gov](mailto:PWSS.CCR@ncdenr.gov)

(use 'Return Receipt Requested' to verify PWS Section's receipt.)

If you do not have internet access, please submit using the following methods:

➤ **By Postal Mail:** Mail your CCR and Certification form to: Public Water Supply Section, 1634 Mail Service Center, Raleigh, NC 27699-1634, Attn: CCR Rule Manager. (Physical Location: Archdale Bldg. 13<sup>th</sup> floor, 512 N. Salisbury St., Raleigh, NC)

➤ **By FAX:** FAX your CCR and Certification form to (919) 715-6637, Attn: CCR Rule Manager

### CCR Customer Direct Delivery Requirements (Based on Population)

➤ **Systems serving 100,000 or more persons must** post the CCR on a publicly-accessible Internet site using a direct URL.

➤ **Systems serving 10,000 or more persons must** distribute the CCR by mail or direct delivery.

➤ **Systems serving less than 10,000 persons but more than 500 persons must either:** (1) distribute the CCR by mail or direct delivery **OR** (2) notify their customers that the CCR is not being mailed, but it will be in what newspaper(s) and when (attach copy of notice). The complete CCR should be printed in the local newspaper, and a copy of the CCR must be made available upon request. *(The 2<sup>nd</sup> option is not acceptable if using the CCR for Tier 3 Public Notification!)*

➤ **Systems serving 500 or fewer persons must either:** (1) distribute the CCR by mail or direct delivery **OR** (2) notify their customers that the CCR is not being mailed, and a copy of the CCR must be made available upon request. *(The 2<sup>nd</sup> option is not acceptable if using the CCR for Tier 3 Public Notification!)*

### CCR Direct Delivery Methods for Bill-Paying Customers

CCR DELIVERY METHOD	METHOD DESCRIPTION (Click link: <a href="#">EPA-CCR Rule Delivery Options Memo January 3, 2013</a> . for referenced Appendix Figures below.)
Mail – paper copy	CWS mails a paper copy of the CCR to each bill-paying customer.
Mail – notification that CCR is available on web site via a direct URL	CWS mails to each bill-paying customer a notification that the CCR is available and provides a direct URL to the CCR on a publicly available site on the Internet where it can be viewed. A URL that navigates to a web page that requires a customer to search for the CCR or enter other information does not meet the “directly deliver” requirement. The mail method for the notification may be, but is not limited to, a water bill insert, statement on the water bill or community newsletter. See Figure 1 in the Appendix.
Email – direct URL to CCR	CWS emails to each bill-paying customer a notification that the CCR is available and provides a direct URL to the CCR on a publicly available site on the Internet. A URL that navigates to a web page that requires a customer to search for the CCR or enter other information does not meet the “directly deliver” requirement. This method may only be used for customers when a CWS has a valid email address to deliver the CCR electronically. See Figure 2 in the Appendix.
Email – CCR sent as an attachment to email	CWS emails the CCR as an electronic file email attachment [e.g., portable document format (PDF)]. This method may only be used for customers when a CWS has a valid email address to deliver the CCR electronically. See Figure 3 in the Appendix.
Email – CCR sent as an embedded image in an email	CWS emails the CCR text and tables inserted into the body of an email (not as an attachment.) This method may only be used for customers when a CWS has a valid email address to deliver the CCR electronically. See Figure 4 in the Appendix.
Additional electronic delivery that meets “otherwise directly deliver” requirement	CWS delivers CCR through a method that “otherwise directly delivers” to each bill-paying customer and in coordination with the primacy agency. This category is intended to encompass methods or technologies not included above. CWSs and primacy agencies considering new methods or technologies should consult with the EPA to ensure it meets the intent of “otherwise directly deliver.”

**Note:** Use of social media or automated phone calls DO NOT meet existing CCR distribution methods under the Rule.



# ***2017 Annual Drinking Water Quality Report***

## ***Town of Marshville***

Water System Number: 01-90-015

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 Tommy Kost at 704-984-0969. 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 Marshville Town Hall on the first Monday following the first Sunday of each month. The meetings are at 7:00 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. The Town of Marshville 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 purchased from Anson County which gets the water from the Pee Dee River.



**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.

**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 As Reported From Anson County:

### Regulated Substances

#### Anson County Water

Substance (Unit of Measure)	Year Sampled	MCL [MRDL]	MCLG [MRDLG]	Amount Detected	Range Low- High	Violation	Typical Source
Fluoride (ppm)	2017	4	4	.55	0.13- 1.18	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Total Organic Carbon [TOC] (removal ratio)	2017	TT	NA	2.0	1.5-2.6	No	Naturally present in the environment
Turbidity (NTU)	2017	TT = 1 NTU	NA	2.5	.01- 2.50	Yes	Soil runoff
Turbidity (Lowest monthly percent of samples meeting limit)	2017	TT = 1 NTU	NA	97% less than .3 NTU	NA	No	Soil runoff

### Secondary Substances

#### Anson County Water

Substance (Unit of Measure)	Year Sampled	SMCL	MCLG	Amount Detected	Range Low- High	Violation	Typical Source
Iron (ppb)	2017	300	NA	73.5	0 - 100	No	Leaching from natural deposits; Industrial wastes
Manganese (ppb)	2017	50	NA	6.8	0 - 36	No	Leaching from natural deposits



Sulfate (ppm)	2017	250	NA	21.7	21.7	No	Runoff/leaching from natural deposits; Industrial wastes
pH (Units)	2017	6.5- 8.5	NA	7.5	6.5- 8.5	No	Naturally occurring

### Unregulated Substances

#### Anson County Water

Substance (Unit of Measure)	Year Sampled	Amount Detected	Range Low-High	Typical Source
Bromodichloromethane (ppb)	2017	9.325	8-13	NA
Chloroform (ppb)	2017	49.75	27-68	NA
Sodium (ppm)	2017	18.1	18.1-18.1	NA

### Tables of Detected Contaminants From Town of Marshville Distribution System:

#### 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 <sup>th</sup> percentile)	9/19/2017	0	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 <sup>th</sup> percentile)	9/19/2017	24	3	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits

#### Disinfectant Residuals Summary

	Year Sampled	MRDL Violation Y/N	Your Water (highest RAA)	Range Low High	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	2017	N	0.74	0.01 - 2.47	4	4.0	Water additive used to control microbes
Chloramines (ppm)	2017	N	1.55	0.07 - 1.55	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 n	Your Water (highest LRAA)	Range Low High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb)					N/A	80	Byproduct of drinking water disinfection
B01	2017	N	52.8	34 - 91.1			
B02	2017	N	53.4	31 - 98			
HAA5 (ppb)					N/A	60	Byproduct of drinking water disinfection
B01	2017	N	31.1	29 - 39.2			
B02	2017	N	33.3	25 - 52			

**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.