

RECEIVED-WATER SUPPLY
2019 MAY 10 AM 10:40

2018 CERTIFICATION

Consumer Confidence Report (CCR)

City of Union

Public Water System Name
MS 0510011

List PWS ID #s for all Community Water Systems included in this CCR

The Federal Safe Drinking Water Act (SDWA) requires each Community Public Water System (PWS) to develop and distribute a Consumer Confidence Report (CCR) to its customers each year. Depending on the population served by the PWS, this CCR must be mailed or delivered to the customers, published in a newspaper of local circulation, or provided to the customers upon request. Make sure you follow the proper procedures when distributing the CCR. **You must email, fax (but not preferred) or mail, a copy of the CCR and Certification to the MSDH.** Please check all boxes that apply.

- Customers were informed of availability of CCR by: *(Attach copy of publication, water bill or other)*
 - Advertisement in local paper *(Attach copy of advertisement)*
 - On water bills *(Attach copy of bill)*
 - Email message *(Email the message to the address below)*
 - Other _____

Date(s) customers were informed: ___ / ___ / 2019 / ___ / 2019 / ___ / 2019

- CCR was distributed by U.S. Postal Service or other direct delivery. Must specify other direct delivery methods used _____

Date Mailed/Distributed: ___ / ___ / ___

- CCR was distributed by Email *(Email MSDH a copy)* Date Emailed: ___ / ___ / 2019
 - As a URL _____ *(Provide Direct URL)*
 - As an attachment
 - As text within the body of the email message

- CCR was published in local newspaper. *(Attach copy of published CCR or proof of publication)*

Name of Newspaper: Newton County Appeal

Date Published: 5 / 1 / 19

- CCR was posted in public places. *(Attach list of locations)* Date Posted: ___ / ___ / 2019

- CCR was posted on a publicly accessible internet site at the following address: _____ *(Provide Direct URL)*

CERTIFICATION

I hereby certify that the CCR has been distributed to the customers of this public water system in the form and manner identified above and that I used distribution methods allowed by the SDWA. I further certify that the information included in this CCR is true and correct and is consistent with the water quality monitoring data provided to the PWS officials by the Mississippi State Department of Health, Bureau of Public Water Supply

Wayne Welch
Name/Title *(Board President, Mayor, Owner, Admin. Contact, etc.)*

5-7-19
Date

Submission options *(Select one method ONLY)*

Mail: (U.S. Postal Service)
MSDH, Bureau of Public Water Supply
P.O. Box 1700
Jackson, MS 39215

Email: water.reports@msdh.ms.gov

Fax: (601) 576 - 7800

****Not a preferred method due to poor clarity****

CCR Deadline to MSDH & Customers by July 1, 2019!

Annual Drinking Water Quality Report
City of Union
PWS ID # 0510011
April, 2019

We're pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. 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. Our water source consists of three wells that draw from the Upper Meridian Wilcox Aquifer.

A source water assessment has been completed for the water supply to determine the overall susceptibility of its drinking water to identify potential sources of contamination.. The water supply for the City of Union received a lower susceptibility ranking to contamination.

We're pleased to report that our drinking water meets all federal and state requirements.

If you have any questions about this report or concerning your water utility, please contact Johnathan Ferguson at 601-774-9422. 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 on the first Tuesday of each month at Union City Hall at 5:30 pm.

The City of Union routinely monitors for constituents in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, 2018. As water travels over the land or 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 constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

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

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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

Maximum Contaminant Level - The "Maximum Allowed" (MCL) 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 - The "Goal"(MCLG) 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.

TEST RESULTS								
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants								
10. Barium	N	2016*	0.0213	No Range	Ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2016*	0.7	No Range	Ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	1/1/16 to 12/31/18	0.1	None	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2016*	0.385	None	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	1/1/16 to 12/31/18	1	No Range	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Disinfectants & Disinfectant By-Products								
Chlorine (as Cl ₂)	N	2018	0.80	0.80 to 0.80	ppm	4	4	Water additive used to control microbes
73. TTHM [Total tri-halomethanes]	N	2017*	10.50	No Range	ppb	0	80	By-product of drinking water chlorination
HAA5	N	2017*	4.0	No Range	ppb	0	60	By-product of drinking water chlorination

* Most recent sample results available

Monitoring and Reporting of Compliance Data Violations

Significant Deficiencies:

During a sanitary survey conducted on 12/12/16, the MS State Department of Health cited the following significant deficiency(s):

Inadequate pump capacity

Corrective Action:

This system is under a Bilateral Compliance Agreement with the MSDH to complete corrective action by 7/31/2019.

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", the City of Union, PWS ID#0510011, is required to report certain results pertaining to fluoridation of our water system. The number of months in the previous calendar year in which the average fluoride sample results were within the optimal range of 0.6-1.2 ppm was 12. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 100 %.

Additional Information for Lead

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 City of Union 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 Mississippi State Department of Health Public Health Laboratory offers lead testing for \$10 per sample. Please contact 601.576.7582 if you

wish to have your water tested..

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.

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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Please call our office if you have questions.

PROOF OF PUBLICATION

STATE OF MISSISSIPPI
COUNTY OF NEWTON

Personally came before me the undersigned authority, in and for the County and State aforesaid Brent Maze, who being by me duly sworn, states on oath that he is the Publisher of *The Newton County Appeal*, a newspaper published in Newton County, Mississippi. A copy of which is hereto attached, has been made in said paper 1 times consecutively, to-wit:

For:

City of Union

Vol. No. 110 No. 40 Date 5/1, 2019

Vol. No. _____ No. _____ Date _____, 20____

Vol. No. _____ No. _____ Date _____, 20____

No. _____ No. _____ Date _____, 20____

No. _____ No. _____ Date _____, 20____

Publisher Signature: Brent Maze

Sworn to and subscribed before me,

this 1st day of May, 2019

Lauren Smith

Notary Public



14 inches
Publication: \$ 133.00
Proof: \$ 3.00
TOTAL: \$ 136.00

Annual Drinking Water Quality Report
City of Union
PWS ID # 0510011
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TEST RESULTS

Contaminant	Unit	Max. Contaminant Level Goal (MCLG)	Maximum Contaminant Level (MCL)	Action Level	Current Concentration (ppm)	Exceeds MCL?	Exceeds Action Level?	Exceeds MCLG?	Public Notice of Violation?	Compliance Status
Organic Contaminants										
1. Chlorine	mg/L	0.05	0.05	No Range	0.05	Yes	No	No	Chlorine is added to water to disinfect and to control taste and odor. Chlorine is not a health concern.	Compliant
2. Chloroform	mg/L	0.05	0.05	No Range	0.05	Yes	No	No	Chloroform is a disinfection byproduct. It is not a health concern.	Compliant
3. Haloacetic Acids (HAA5)	mg/L	0.1	0.1	No Range	0.1	Yes	No	No	HAA5 are disinfection byproducts. They are not a health concern.	Compliant
4. Total Trihalomethanes (TTHM)	mg/L	0.2	0.2	No Range	0.2	Yes	No	No	TTHM are disinfection byproducts. They are not a health concern.	Compliant
Inorganic Contaminants										
5. Arsenic	ppm	0.05	0.05	0.05	0.05	Yes	No	No	Arsenic is a naturally occurring element. It is not a health concern.	Compliant
6. Barium	ppm	1.0	1.0	1.0	1.0	Yes	No	No	Barium is a naturally occurring element. It is not a health concern.	Compliant
7. Cadmium	ppm	0.01	0.01	0.01	0.01	Yes	No	No	Cadmium is a naturally occurring element. It is not a health concern.	Compliant
8. Copper	ppm	1.3	1.3	1.3	1.3	Yes	No	No	Copper is a naturally occurring element. It is not a health concern.	Compliant
9. Lead	ppm	0.01	0.01	0.01	0.01	Yes	No	No	Lead is a naturally occurring element. It is not a health concern.	Compliant
10. Nitrate	ppm	10	10	10	10	Yes	No	No	Nitrate is a naturally occurring element. It is not a health concern.	Compliant
11. Selenium	ppm	0.05	0.05	0.05	0.05	Yes	No	No	Selenium is a naturally occurring element. It is not a health concern.	Compliant
12. Total Dissolved Solids (TDS)	ppm	500	500	500	500	Yes	No	No	TDS are minerals and salts. They are not a health concern.	Compliant
13. Total Hardness	ppm	300	300	300	300	Yes	No	No	Hardness is minerals and salts. They are not a health concern.	Compliant
14. Total Solids	ppm	500	500	500	500	Yes	No	No	Total Solids are minerals and salts. They are not a health concern.	Compliant

Violating and Reporting of Compliance Data Violations
The City of Union is responsible for providing high quality drinking water, but cannot control the natural 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 on the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>. The Mississippi State Department of Health Public Health Laboratory offers lead testing for \$10 per sample. Please contact 601.576.7382 if you wish to have your water tested.

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.

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