

2019 CERTIFICATION

JUN -2 AM 11:23

Consumer Confidence Report (CCR)

Big Creek Water Association
Public Water System Name

D70002

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: ___ / ___ / 2020 / / 2020 / / 2020

- 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: ___ / ___ / 2020
 - 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: The Calhoun County Journal

Date Published: 5 / 6 / 2020

- CCR was posted in public places. *(Attach list of locations)* Date Posted: ___ / ___ / 2020

- 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

Wanda Hanson Bookkeeper 6-1-20
Name/Title (Board President, Mayor, Owner, Admin. Contact, etc.) 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, 2020!

2019 Annual Drinking Water Quality Report
 Big Creek Water Association
 PWS#: 0070002
 April 2020

MAY 04 2020

We're pleased to present to you this year's Annual Quality Water 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 providing you with information because informed customers are our best allies. Our water source is from wells drawing from the Gordo Aquifer.

The source water assessment has been completed for our public water system to determine the overall susceptibility of its drinking water supply to identify potential sources of contamination. A report containing detailed information on how the susceptibility determinations were made has been furnished to our public water system and is available for viewing upon request. The wells for the Big Creek Water Association have received lower rankings in terms of susceptibility to contamination.

If you have any questions about this report or concerning your water utility; please contact Wanda Harrison at 662.414.1013. We want our valued customers to be informed about their water utility. If you want to learn more, please join us at any of our regularly scheduled meeting to be held on August 11, 2020 at 7:00 PM at the Big Creek City Hall.

We routinely monitor for contaminants in your drinking water according to Federal and State laws. This table below lists all of the drinking water contaminants that were detected during the period of January 1st to December 31st, 2019. In cases where monitoring wasn't required in 2019, the table reflects the most recent results. As water travels over the surface of land or underground, it dissolves naturally occurring minerals and, in some cases, radioactive materials and can pick up substances or contaminants from the presence of animals or from human activity; microbial contaminants, such as viruses and bacteria, that 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 and septic systems; 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 that limit the amount of certain contaminants in water provided by public water systems. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily indicate that the water poses 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.

Maximum Contaminant Level (MCL) - 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 (MCLG) - 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.

Maximum Residual Disinfectant 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 microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk of health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

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 - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

TEST RESULTS								
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL/MRDL	Unit Measure -ment	MCLG	MCL	Likely Source of Contamination
Radioactive Contaminants								
6. Radium 226 Radium 228	N	2016*	1.3 2.3	No Range	pCi/l	0	5	Erosion of natural deposits
Inorganic Contaminants								
8. Arsenic	N	2018*	10.6	.47 – 10.6	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes

10. Barium	N	2018*	.1463	.1112 - .1463	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2018*	4.2	3.5 – 4.2	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2017/19	.6	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2018*	.443	.434 - .443	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2017/19	1	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
21. Selenium	N	2018*	4.1	2.6 – 4.1	ppb	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines

Disinfection By-Products

81. HAA5	N	2019	19	No Range	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2017*	49.2	No Range	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2019	.9	.4 – 1.3	mg/l	0	MRDL = 4	Water additive used to control microbes

Unregulated Contaminants

Sodium	N	2019	370000	280000-370000	PPB	NONE	NONE	Road Salt, Water Treatment Chemicals, Water Softeners and Sewage Effluents.
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* Most recent sample. No sample required for 2019.

Inorganic Contaminants:

(9) Arsenic. Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer.

As you can see by the table, our system had no violations. We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some contaminants have been detected however the EPA has determined that your water IS SAFE at these levels.

We are required to monitor your drinking water for specific contaminants on a monthly basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. In an effort to ensure systems complete all monitoring requirements, MSDH now notifies systems of any missing samples prior to the end of the compliance period.

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. Our water system 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. 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 microbial contaminants are available from the Safe Drinking Water Hotline 1.800.426.4791.

The Big Creek Water Association works around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

Proof Of Publication

STATE OF MISSISSIPPI,
COUNTY OF CALHOUN

Personally came before me, the undersigned, a Notary Public, in and for Calhoun County, Mississippi, Joel McNeece, Publisher of The Calhoun County Journal, a newspaper published in Bruce, Calhoun County, in said state, who being duly sworn, deposes and says that The Calhoun County Journal is a newspaper as defined and prescribed in Senate Bill No. 203 enacted at the regular session of the Mississippi Legislature of 1948, amending Section 1858 of the Mississippi Code of 1942, and the publication of a notice, of which annexed copy, in the matter of

BIG CREEK WATER ASSOCIATION

has been made in said newspaper one time, to-wit:

On the 6 day of MAY 2020

Joel McNeece
Publisher

Sworn to and subscribed before me, this the 6 day of May, 2020.

Celia D. Hillhouse,
Notary Public

My commission expires February 18, 2023

SEAL



We're pleased to present to you this year's Annual Drinking Water 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 providing you with information because informed customers are our best allies. Our water source is from wells drawing from the Clinch Shale.

The source water assessment has been completed for our public water system to determine the overall susceptibility of its drinking water supply to identify potential sources of contamination. A report containing detailed information on how the susceptibility determinations were made has been furnished to our public water system and is available for viewing upon request. The wells for the Big Creek Water Association have received lower rankings in terms of susceptibility to contamination.

If you have any questions about the report or concerning your water utility, please contact Wanda Harrison at 602-316-1010. We want to value our customers to be informed about their water utility. If you want to learn more, please join us at any of our regular scheduled meetings to be held on August 11, 2020 at 7:00 PM at the Big Creek City Hall.

We routinely monitor for contaminants in your drinking water beyond the surface of Federal and State laws. This table lists all of the drinking water contaminants that were analyzed during the period of January 1st to December 31st, 2019. In cases where monitoring wasn't required in 2019, the table reflects the most recent results. As water travels over the surface of land or underground, it dissolves naturally occurring minerals and, in some cases, radioactive materials and can pick up substances or contaminants from the presence of animals or from human activities. Radioactive contaminants, such as radium and radon, that may come from sewage treatment plants, geologic formations, agricultural operations, and various industrial, 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 use, organic chemical contaminants, including petroleum-based and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stoves and heating systems; disinfection by-products, 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 that limit the amount of certain contaminants in water provided by public water systems. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily indicate that the water poses a health risk.

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Radioactive Contaminants									
9. Radium 226	N	2019	1.3	No Range	pCi/L	0	5	5	Byproduct of natural decay
10. Radium 228	N	2019	11.3	11.3 - 16.3	ppm	5	5	5	Discharge of drilling wastes, discharge from metal refineries, natural decay
Inorganic Contaminants									
11. Arsenic	N	2019	10.8	4.7 - 10.8	ppb	n/a	10	10	Remnant of natural deposits, runoff from herbicide runoff from golf courses, discharge from power plants
12. Chromium	N	2019	4.2	3.3 - 4.2	ppb	100	100	100	Discharge from metal and pulp mills, runoff of natural deposits
13. Copper	N	2017/19	6	0	ppm	1.3	1.3	1.3	Corrosion of household plumbing systems, runoff of natural deposits, erosion of natural deposits, leaching from wood preservatives
14. Fluoride	N	2019	6.67	4.34 - 6.67	ppm	4	4	4	Erosion of natural deposits, water additive which promotes strong teeth, discharge from fertilizer and aluminum byproducts
15. Lead	N	2017/19	1	0	ppb	0	1.5	1.5	Corrosion of household plumbing systems, erosion of natural deposits
16. Selenium	N	2019	4.1	2.0 - 4.1	ppb	50	50	50	Discharge from petroleum and metal refineries, runoff of natural deposits, discharge from mines
Disinfection By-Products									
17. HAA5	N	2019	1.6	No Range	ppb	10	10	10	By-product of drinking water disinfection
18. THM5 (Total Trihalomethanes)	N	2017	43.2	No Range	ppb	0	0	0	By-product of drinking water disinfection
19. Chlorine	N	2019	3	1 - 1.3	mg/L	0	MRDL = 4	MRDL = 4	Filter additive used to control iron/copper
Unregulated Contaminants									
20. Toxaphene	N	2019	370000	270000-370000	PPB	n/a	n/a	n/a	Food, Soil, Water Treatment Chemical, Waste Solvents and Sewing Effluents

* Most recent sample. No sample required for 2019 Inorganic Contaminants.
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