

2019 MAY 10 PM 4:18

# 2018 CERTIFICATION

## Consumer Confidence Report (CCR)

East Chickasaw Water

Public Water System Name

0090002

0090012

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: 5/1/2019 6/1/2019 7/1/2019

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: The Okolona Messenger

Date Published: 4/17/19

CCR was posted in public places. *(Attach list of locations)*

Date Posted: 5/1/2019

CCR was posted on a publicly accessible internet site at the following address:

www.ecwai.com

*(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

Earl Carter

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

5/6/19  
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!**

2018 Annual Drinking Water Quality Report  
 East Chickasaw Water Association  
 PWS#: 0090002 & 0090012  
 April 2019

2019 APR -9 AM 11:16

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 ensuring the quality of your water.

If you have any questions about this report or concerning your water utility, please contact Earl Carter at 662.447.5565. 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 Monday of each month at 5:30 PM at the Egypt Voting Center, Okolona, MS, 38860.

Our water source is from wells drawing from the McShan Formation, Lower Wilcox, Eutaw Formation and the Eutaw-McShan Formation Aquifers. 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 East Chickasaw Water Association have received lower susceptibility rankings to contamination.

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 we detected during the period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2018. In cases where monitoring wasn't required in 2018, 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 to 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.

PWS ID#: 0090002		TEST RESULTS						
Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measure -ment	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>								
8. Arsenic	N	2018	1.3	1.1 - 1.3	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
10. Barium	N	2018	.0369	.0365 - .0369	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2018	1	No Range	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2015/17*	.4	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2018	.132	.108 - .132	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2015/17*	1	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits



19. Nitrate (as Nitrogen)	N	2018	.11	No Range	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
<b>Volatile Organic Contaminants</b>								
66. Ethylbenzene	N	2018	5.841	No Range	ppb	700	700	Discharge from petroleum refineries
76. Xylenes	N	2018	.0368	.0013 - .0368	ppm	10	10	Discharge from petroleum factories; discharge from chemical factories
<b>Disinfection By-Products</b>								
81. HAA5	N	2018	5	No Range	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2018	3.51	No Range	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2018	.9	.40 – 1.5	mg/l	0	MDRL = 4	Water additive used to control microbes

**PWS ID#: 0090012**

**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
<b>Inorganic Contaminants</b>								
8. Arsenic	N	2018	1.4	.8 – 1.4	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
10. Barium	N	2018	.0698	.0583 - .0698	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2018	4.1	1.8 – 4.1	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2015/17*	.2	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2018	.148	.101 - .148	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2015/17*	1	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
20. Nitrite (as Nitrogen)	N	2018	.04	No Range	ppm	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
<b>Disinfection By-Products</b>								
81. HAA5	N	2018	6	No Range	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total trihalomethanes]	N	2014*	1.41	No Range	ppb	0	80	By-product of drinking water chlorination.
Chlorine	N	2018	.80	.30- 1.30	ppm	0	MDRL = 4	Water additive used to control microbes

\* Most recent sample. No sample required for 2018.

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 microbiological contaminants are available from the Safe Drinking Water Hotline 1.800.426.4791.

The East Chickasaw 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.

2018 Annual Drinking Water Quality Report  
 East Chickasaw Water Association  
 PWS# 0090002 & 0090012  
 April 2019

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If you have any questions about this report or concerning your water utility, please contact East Center at 602-447-6995. 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 Monday of each month at 8:30 PM at the Egypt Votey Center, Oklawaha, MS, 38860.

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PWS ID#: 0090002

Contaminant	Violation Y/N	Date Collected	TEST RESULTS		Unit Measure	MCLG	MCL	Likely Source of Contamination
			Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL				
<b>Inorganic Contaminants</b>								
8. Arsenic	N	2018	1.3	1.1 - 1.3	ppb	n/a	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
10. Barium	N	2018	.0389	.0388 - .0389	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2018	1	No Range	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2018/17*	A	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2018	.132	.108 - .132	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2018/17*	1	0	ppb	0	AL=15	Corrosion of household plumbing
19. Nitrate (as Nitrogen)	N	2018	.11	No Range	ppm	10	10	Systems; erosion of natural deposits; runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

**Volatile Organic Contaminants**

09. Ethylbenzene	N	2018	5.841	No Range	ppb	700	700	Discharge from petroleum refineries
76. Xylenes	N	2018	.0388	.0013 - .0388	ppm	10	10	Discharge from petroleum refineries; discharge from chemical factories

**Disinfection By-Products**

81. HAA5	N	2018	6	No Range	ppb	0	60	By-product of drinking water disinfection
82. THM5 (Total trihalomethanes)	N	2018	3.51	No Range	ppb	0	80	By-product of drinking water chlorination
Chlorine	N	2018	0	.60 - 1.6	mg/l	0	MDR=4	Water additive used to control microbes

PWS ID#: 0090012

Contaminant	Violation Y/N	Date Collected	TEST RESULTS		Unit Measure	MCLG	MCL	Likely Source of Contamination
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10. Barium	N	2018	.0388	.0383 - .0388	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2018	4.1	1.2 - 4.1	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2018/17*	2	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2018	.388	.187 - .388	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2018/17*	1	0	ppb	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits; runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
19. Nitrate (as Nitrogen)	N	2018	.04	No Range	ppm	10	10	Systems; erosion of natural deposits; runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
<b>Disinfection By-Products</b>								
81. HAA5	N	2018	6	No Range	ppb	0	60	By-product of drinking water disinfection

Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects or # of Samples Exceeding MCL/ACL	Unit Measure	MCLG	MCL	Likely Source of Contamination																																																																																																																					
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14. Copper	N	2016/17*	.2	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives																																																																																																																					
16. Fluoride	N	2016	.148	.09 - .148	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth																																																																																																																					
17. Lead	N	2016/17*	1	0	ppb	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits																																																																																																																					
20. Nitrate (as Nitrogen)	N	2016	.04	No Range	ppm	1	1	Runoff from fertilizer use; leaching from septic tanks; seepage; erosion of natural deposits																																																																																																																					
<b>Disinfection By-Products</b>																																																																																																																													
81. HAAS	N	2016	6	No Range	ppb	0	60	By-Product of drinking water disinfection.																																																																																																																					
82. THM4 (Total Trihalomethanes)	N	2016*	1.41	No Range	ppb	0	80	By-product of drinking water disinfection.																																																																																																																					
Chlorine	N	2016	.80	.30 - 1.30	ppm	0	MDRL = 4	Water additive used to control microbes																																																																																																																					

\* Most recent sample. No sample required for 2018.

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 requirement. 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, MDH now notifies systems 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 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're 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/leadandtapwater>. The Minnesota State Department of Health also provides 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 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 1.800.426.4791.

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

2018 CCR report available at [www.ecwai.com](http://www.ecwai.com) or hardcopy at (662)447-5565

<b>WATER LOSS IN GALLONS</b>					
Leak this size	Loss per Day	Loss per Month	Leak this size	Loss per Day	Loss per Month
•	120	3,600	●	3,096	92,880
•	360	10,800	●	4,296	128,980
•	693	20,790	●	6,640	199,200
•	1,200	36,000	●	6,984	200,520
•	1,920	37,600	●	8,424	252,720

**THIS BILL MUST BE PAID BY THE 25TH OF THE MONTH  
OR SERVICE WILL BE DISCONTINUED ON THE 26TH  
WITHOUT FURTHER NOTICE.**