

2019 CERTIFICATION

Consumer Confidence Report (CCR)

McNair Strimpley Waterworks

Public Water System Name

#MS0320010, #MS0320003, #MS0320015

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 Fayette Chronicle

Date Published: 6/18/2020

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

Russell [Signature]
Name/Title (Board President, Mayor, Owner, Admin. Contact, etc.)

6-18-2020
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

McNair Stampley Waterworks

PWS#: 0320003, 0320010 & 0320015

June 2020

2020 JUN 25 AM 9:53

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. Our water source is from wells drawing from the Catahoula Formation Aquifer.

The source water assessment has been completed for our public water system to determine the overall susceptibility of its drinking water supply to identified 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 McNair Stampley Water Association have received lower to moderate susceptibility rankings to contamination.

If you have any questions about this report or concerning your water utility, please contact Elbert Dixon at 601.431.3723. 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 second Thursday of each month at 7:00 PM at the main office.

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 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 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.

Level 1 Assessment: A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

PWS ID #: 0320003		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
Microbiological Contaminants								
1. Total Coliform Bacteria	N Y	December	Positive Monitoring	1	NA	0	presence of coliform bacteria in 5% of monthly samples	Naturally present in the environment
Inorganic Contaminants								
10. Barium	N	2019	.1806	No Range	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; 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	2019	.147	No Range	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2015/17*	4	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Disinfection By-Products								
Chlorine	N	2019	1.7	1.41 – 1.94	ppm	0	MDRL = 4	Water additive used to control microbes
Treatment Technique								
TT Violation	Explanation	Duration of Violation	Corrective Actions	Health Effects Language				
Ground Water Rule	Failure to Address Deficiency	09/2016 – 12/2018	The system has completed corrective actions and is no longer in violation of this rule.	Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.				

*Most recent sample. No sample required for 2019.

PWS ID #: 0320010		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
Microbiological Contaminants								
1. Total Coliform Bacteria	N Y	December	Positive Monitoring	1	NA	0	presence of coliform bacteria in 5% of monthly samples	Naturally present in the environment
Inorganic Contaminants								
10. Barium	N	2019	.0122	No Range	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2019	.8	No Range	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits

14. Copper	N	2015/17*	.1	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2019	.11	No Range	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2015/17*	2	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits

Disinfection By-Products

Chlorine	N	2019	1.7	1.1 – 1.89	ppm	0	MDRL = 4	Water additive used to control microbes
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Treatment Technique

TT Violation	Explanation	Duration of Violation	Corrective Actions	Health Effects Language
Ground Water Rule	Failure to Address Deficiency	09/2016 – 12/2018	The system has completed corrective actions and is no longer in violation of this rule.	Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

* Most recent sample. No sample required for 2019.

PWS ID #: 0320015

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
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Microbiological Contaminants

1. Total Coliform Bacteria	N Y	December	Positive Monitoring	1	NA	0	presence of coliform bacteria in 5% of monthly samples	Naturally present in the environment
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Inorganic Contaminants

10. Barium	N	2017*	.1687	No Range	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
13. Chromium	N	2017*	.5	No Range	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper	N	2019	.1	0	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
16. Fluoride	N	2017*	.134	No Range	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead	N	2019	2	0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
21. Selenium	N	2017*	.6	No Range	ppb	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
19. Nitrate (as Nitrogen)	N	2018*	.16	No Range	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

Disinfection By-Products

81. HAA5	N	2019	6	No Range	ppb	0	60	By-Product of drinking water disinfection.
82. TTHM [Total]	N	2018*	1.02	No Range	ppb	0	80	By-product of drinking water chlorination.

trihalomethanes]								
Chlorine	N	2019	1.8	1.14 – 1.96	ppm	0	MDRL = 4	Water additive used to control microbes

* Most recent sample. No sample required for 2019.

Microbiological Contaminants:

(1) Total Coliform/E Coli. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliform indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessments (s) to identify problems and to correct any problems that were found during these assessments.

On all three of our systems, we had samples with total coliform present in December. We were required to conduct and completed 1 (one) Level 1 assessment on each system. In addition, we were required to take 1 (one) corrective action. We failed to conduct the required assessment and have received a reporting violation.

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. We did complete the monitoring requirements for bacteriological sampling that showed no coliform present. 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 Association 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.

Significant Deficiencies

PWS#320003

Monitoring and Reporting of Compliance Data Violations:

During a sanitary survey conducted on 6/20/2019, the Mississippi State Department of Health cited the following significant deficiency(s):

Inadequate security measures

Improper screening of overflow pipes, drains, or vents

Corrective Actions: This system is scheduled for enforcement actions by MSDH to correct the deficiencies by 6/30/20.

PWS#320010

Monitoring and Reporting of Compliance Data Violations:

During a sanitary survey conducted on 6/20/2019, the Mississippi State Department of Health cited the following significant deficiency(s):

Condition of Source Facilities

Corrective Actions: This system is scheduled for enforcement actions by MSDH to correct the deficiencies by 6/30/20.

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 McNair Stampley Waterworks 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.

2019 Annual Drinking Water Quality Report

McNair Stampley Waterworks

PWS#: 0320003, 0320010 & 0320015 June 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 of 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 is from wells drawing from the Catahoula Formation Aquifer.

The source water assessment has been completed for our public water system to determine the overall susceptibility of its drinking water supply to identified 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 McNair Stampley Water Association have received lower to moderate susceptibility rankings to contamination.

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- 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 disinfectant which does 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.

Level 1A assessment: A study of the water system to identify potential problems and determine

Contaminant	N	2015/17	1	0	ppm	1.3	AL=1.3	Concentration of household plumbing systems, erosion of metal pipes, leaching from acid rain, etc.
14. Copper	N	2019	1	No Range	ppm	4	4	Erosion of natural deposits; water additive which promotes strong leach; discharge from fertilizer and aluminum factories
16. Fluoride	N	2019/17	2	0	ppb	0	AL=15	Concentration of household plumbing systems, erosion of natural deposits

Disinfection By-Products

Chlorine	N	2019	1.7	1.1 - 1.89	ppm	0	MORL = 4	Water additive used to control
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Treatment Technique

TT Location	Explanation	Duration of Violation	Corrective Action	Health Effects Language
Ground Water Rule	Failure to Address Deficiency	09/20/16 - 12/20/18	The system has completed corrective actions and is no longer in violation of this rule.	Indisputably treated water may contain disinfection by-products. These operations include bacteria, viruses, and other microorganisms, such as lead, copper, nitrate, nitrite, and disinfection by-products.

* Most recent sample, No sample required for 2019.

TEST RESULTS

Contaminant	Violation Y/N	Date Collected	Level Detected	Range of Detects of # of Samples Exceeding MCL/MCLG	Unit Measure	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants								
1. Total Coliform Bacteria	N	December 2017	Positive Identifying	1	NA	0	0	presence of coliform bacteria, a sign of environmental pollution
Inorganic Contaminants								
10. Barium	N	2017	1687	No Range	ppm	2	2	Discharge of drilling wastes; erosion of natural deposits
13. Chromium	N	2017	5	No Range	ppb	100	100	Discharge from metal refineries; discharge from metal refineries
14. Copper	N	2019	1	0	ppm	1.3	AL=1.3	Concentration of household plumbing systems, erosion of natural deposits; leaching from acid rain, etc.
16. Fluoride	N	2017	124	No Range	ppm	4	4	Erosion of natural deposits; water additive which promotes strong leach; discharge from fertilizer and aluminum factories
17. Lead	N	2018	2	0	ppb	0	AL=15	Concentration of household plumbing systems, erosion of natural deposits
21. Selenium	N	2017	6	No Range	ppb	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
18. Nitrate (as Nitrogen)	N	2018	16	No Range	ppm	10	10	Rural level fertilizer use; discharge from animal waste; leaching from natural deposits; discharge from mines

Disinfection By-Products

By-Product	N	2019	g	No Range	ppb	0 <th>0 <th>By-Product of drinking water disinfection</th> </th>	0 <th>By-Product of drinking water disinfection</th>	By-Product of drinking water disinfection
82. THM4 (Total)	N	2018	1.02	No Range	ppb	0	80	By-product of drinking water disinfection

* A lost recent sample. No sample required for 2019.

Microbiological Contaminants:
(1) Total Coliform Coli Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliform indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessments (S) to identify problems and to correct any problems that were found during these assessments. On all three of our systems, we had samples with total coliform present in December. We were required to conduct and completed 1 (one) level 1 assessment on each system. In addition, we were required to take 1 (one) corrective action. We failed to conduct the required assessment and have received a reporting violation. 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. We did complete the monitoring requirements for bacteriological sampling that showed no coliform present. 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