# 2024 Annual Drinking Water Quality Report North Lee County Water Association PWS#: 410001, 410024, 410025, 410035, 410040, 410041, 410042, 410044 June 2025

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.

# **Contact & Meeting Information**

If you have any questions about this report or concerning your water utility, please contact Philip Fitts at 662.869.1223. 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 meetings. They are held on the second Thursday of the month at 7:00 PM at the Birmingham Ridge Fire Department located at 947 CR 1948, Saltillo, MS. Your CCR will not be mailed out to each individual customer, however you may obtain a copy by calling the office at 662.869.1223.

#### Source of Water

Our water source is from wells drawing from the Eutaw, Lower Eutaw, Eutaw-McShan and Gordo 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 North Lee Water Association have received moderate rankings in terms of susceptibility to contamination. We also purchase water from the Northeast MS Regional Water Supply District.

## Period Covered by Report

We routinely monitor for contaminants in your drinking water according to federal and state laws. This report is based on results of our monitoring period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2024. In cases where monitoring wasn't required in 2024, the table reflects the most recent testing done in accordance with the laws, rules, and regulations.

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.

## Terms and Abbreviations

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

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

<u>Locational Running Annual Average(LRAA):</u> The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

LSLI: Lead Service Line Inventory

<u>Maximum Contaminant Level (MCL)</u>: 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.

<u>Maximum Contaminant Level Goal (MCLG)</u>: 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.

<u>Maximum Residual Disinfectant Level (MRDL)</u>: 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.

<u>Maximum Residual Disinfectant Level Goal (MRDLG)</u>: 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.

Nephelometric Turbidity Unit (NTU): A measure of water clarity

Parts per billion (ppb) or micrograms per liter: one part by weight of analyte to 1 billion parts by weight of the water sample.

<u>Parts per million (ppm) or Milligrams per liter (mg/l)</u>: one part by weight of analyte to 1 million parts by weight of the water sample. <u>RAA:</u> Running Annual Average <u>Turbidity:</u> Measurement of how cloudy water is.

| PWS ID                                 | # 4100           | /U I              |                   | IES  | T RES                    | JLIO         |                 |  |
|--|------------------|-------------------|-------------------|--|--------------------------|--------------|-----------------|--|
| Contaminant                            | Violation<br>Y/N | Date<br>Collected | Level<br>Detected | Range of Detects<br>or # of Samples<br>Exceeding<br>MCL/ACL/MRDL | Unit<br>Measure-<br>ment | MCLG         | MCL             | Likely Source of Contamination   |
| Inorganic                              | Contan           | ninants -         | - Salts and r     | metals which can oc  | cur naturally            | in the soil  | or groundwat    | er or may result from urban stormwater   |
| runoff, Industri                       | al or domes      | tic wastewa       | ter discharge     | es, oil and gas produ  | ction, mining            | ı, or farmir | ıg.             |  |
| 8. Arsenic                             | N                | 2024              | ,5                | No Range   | bbp                      | n/a          | 10              | Erosion of natural deposits; runoff from<br>orchards; runoff from glass and<br>electronics production wastes |
| 10. Barium                             | N                | 2024              | .0711             | No Range   | ppm                      | 2            | 2               | Discharge of drilling wastes; discharge from metal refineries; erosion of natura deposits                    |
| 13.<br>Chromium                        | N                | 2024              | 2.2               | No Range   | ppb                      | 100          | 100             | Discharge from steel and pulp mills; erosion of natural deposits   |
| 14. Copper                             | N                | 2021/23*          | .3                | 0  | ppm                      | 1.3          | AL=1.3          | Corrosion of household plumbing<br>systems; erosion of natural deposits;<br>leaching from wood preservatives |
| 17. Lead                               | N                | 2021/23*          | 1                 | 0  | ppb                      | 0            | AL=15           | Corrosion of household plumbing systems, erosion of natural deposits   |
| Sodium                                 | N                | 2022*             | 31.2              | No Range   | ppm                      | 20           |                 | Road Salt, Water Treatment<br>Chemicals, Water Softeners and<br>Sewage Effluents.                            |
| Disinfection occurring mater           |                  |                   | - Substanc        | es formed when dis   | infectants, lik          | e Chlorine   | e, used to trea | t drinking water react with naturally  |
| 82. TTHM<br>[Total<br>trihalomethanes] | N                | 2024              | .005 -<br>LRAA    | 0-9.7  | ppb                      | 0            | 80              | By-product of drinking water chlorination.   |
| Chlorine                               | N                | 2024              | 1.1 - RAA         | .4 – 1.7   | mg/l                     | 0            | MRDL = 4        | Water additive used to control microbes  |

| PWS ID                                 | # 4100           | 24                |                   | TES  | T RES                    | JLTS       |                 |   |
|--|------------------|-------------------|-------------------|--|--------------------------|------------|-----------------|---|
| Contaminant                            | Violation<br>Y/N | Date<br>Collected | Level<br>Detected | Range of Detects<br>or # of Samples<br>Exceeding<br>MCL/ACL/MRDL | Unit<br>Measure-<br>ment | MCLG       | MCL             | Likely Source of Contamination  |
|  |                  |                   |                   | metals which can oc<br>es, oil and gas produ                     |                          |            |                 | er or may result from urban stormwater  |
| 8. Arsenic                             | N                | 2024              | .7                | No Range   | ppb                      | n/a        | 10              | Erosion of natural deposits; runoff from<br>orchards; runoff from glass and<br>electronics production wastes              |
| 10. Barium                             | N                | 2024              | .131              | No Range   | ppm                      | 2          | 2               | Discharge of drilling wastes; discharge from metal refineries; erosion of natura deposits                                 |
| 14. Copper                             | N                | 2021/23*          | 0                 | 0  | ppm                      | 1.3        | AL=1.3          | Corrosion of household plumbing<br>systems; erosion of natural deposits;<br>leaching from wood preservatives              |
| 16. Fluoride                           | N                | 2024              | .172              | No Range   | ppm                      | 4          | 4               | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |
| 17. Lead                               | N                | 2021/23*          | 1                 | 0  | ppb                      | 0          | AL=15           | Corrosion of household plumbing systems, erosion of natural deposits  |
| Sodium                                 | N                | 2022*             | 37                | 28.3 - 37  | ppm                      | 20         |                 | Road Salt, Water Treatment<br>Chemicals, Water Softeners and<br>Sewage Effluents.   |
| Disinfection occurring mater           | on By-P          | roducts<br>water. | - Substanc        | es formed when dis   | infectants, lik          | e Chlorine | e, used to trea | nt drinking water react with naturally  |
| 82, TTHM<br>(Total<br>trihalomethanes) | N                | 2024              | .002-<br>LRAA     | 0 - 1.55   | ppb                      | 0          | 80              | By-product of drinking water chlorination.  |
| Chlorine                               | N                | 2024              | 1- RAA            | .4 – 1.8   | mg/l                     | 0.         | MRDL = 4        | Water additive used to control microbes   |

| PWS ID                                 | # 4100               | 25                               |  | TES  | T RESI                          | JLTS        |                 |   |
|--|----------------------|----------------------------------|--|--|---------------------------------|-------------|-----------------|---|
| Contaminant                            | Violation<br>Y/N     | Date<br>Collected                | Level<br>Detected                                      | Range of Detects<br>or # of Samples<br>Exceeding<br>MCL/ACL/MRDL | Unit<br>Measure-<br>ment        | MCLG        | MCL             | Likely Source of Contamination  |
| Inorganic<br>runoff. Industr           | Contan               | <b>ninants -</b><br>stic wastewa | <ul> <li>Salts and r</li> <li>ter discharge</li> </ul> | metals which can oc<br>es, oil and gas produ                     | cur naturally<br>iction, mining | in the soil | or groundwat    | er or may result from urban stormwater  |
| 8. Arsenic                             | N                    | 2024                             | 1.5  | .6 1.5   | ppb                             | n/a         | 10              | Erosion of natural deposits; runoff from<br>orchards; runoff from glass and<br>electronics production wastes              |
| 10. Barium                             | N                    | 2024                             | .23  | .097723  | ppm                             | 2           | 2               | Discharge of drilling wastes; discharge<br>from metal refineries; erosion of natura<br>deposits                           |
| 14. Copper                             | N                    | 2021/23*                         | 0  | 0  | ppm                             | 1.3         | AL=1.3          | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives                    |
| 16. Fluoride                           | N                    | 2024                             | .141   | No Range   | ppm                             | 4           | 4               | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |
| 17. Lead                               | N                    | 2021/23*                         | 0  | 0  | ppb                             | 0           | AL=15           | Corrosion of household plumbing systems, erosion of natural deposits  |
| Sodium                                 | N                    | 2022*                            | 31   | 26.3 - 31  | ppm                             | 20          | -               | Road Salt, Water Treatment<br>Chemicals, Water Softeners and<br>Sewage Effluents.   |
| Disinfection occurring mater           | on By-Perials in the | roducts<br>water.                | - Substanc   | es formed when dis   | infectants, lik                 | e Chlorine  | e, used to trea | t drinking water react with naturally   |
| 82. TTHM<br>(Total<br>trihalomethanes) | N                    | 2024                             | .001-<br>LRAA  | 0 – 1.58   | ppb                             | 0           | 80              | By-product of drinking water chlorination.  |
| Chlorine                               | N                    | 2024                             | 1.1 - RAA  | .6 – 1.7   | mg/l                            | 0           | MRDL = 4        | Water additive used to control microbes   |

| PWS ID #                               | <del></del>      |                   |                   |  | RESU                     | LIV         |                |  |
|--|------------------|-------------------|-------------------|--|--------------------------|-------------|----------------|--|
| Contaminant                            | Violation<br>Y/N | Date<br>Collected | Level<br>Detected | Range of Detects<br>or # of Samples<br>Exceeding<br>MCL/ACL/MRDL | Unit<br>Measure-<br>ment | MCLG        | MCL            | Likely Source of Contamination   |
| Inorganic (                            | Contamii         | nants – :         | Salts and me      | tals which can occu  | r naturally in           | the soil or | groundwater    | or may result from urban stormwater  |
|  |                  |                   |                   | oil and gas producti   | on, mining,              | or farming. |                | · ·  |
| 8. Arsenic                             | N                | 2024              | 11.5              | .9 – 11.5  | ppb                      | n/a         | 10             | Erosion of natural deposits; runoff<br>from orchards; runoff from glass and<br>electronics production wastes                       |
| 10. Barium                             | N                | 2024              | .293              | .0085293   | ppm                      | 2           | 2              | Discharge of drilling wastes;<br>discharge from metal refineries;<br>erosion of natural deposits                                   |
| 13. Chromium                           | N                | 2024              | .5                | No Range   | ppb                      | 100         | 100            |  |
| 14. Copper                             | N                | 2021/23*          | 0                 | 0  | ppm                      | 1.3         | AL=1.3         | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives                             |
| 16. Fluoride                           | N                | 2024              | .156              | .1156  | ppm                      | 4           | 4              | Erosion of natural deposits; water<br>additive which promotes strong<br>teeth; discharge from fertilizer and<br>aluminum factories |
| 17. Lead                               | N                | 2021/23*          | 0                 | 0  | ppb                      | 0           | AL=15          | Corrosion of household plumbing systems, erosion of natural deposits   |
| Sodium                                 | N                | 2022*             | 55                | No Range   | ppm                      | 20          |                | Road Salt, Water Treatment<br>Chemicals, Water Softeners and<br>Sewage Effluents.  |
| Disinfectio occurring materi           | n By-Pro         | oducts –<br>iter. | Substances        | formed when disinfo  | ectants, like            | Chlorine, u | sed to treat d | rinking water react with naturally   |
| 82, TTHM<br>[Total<br>trihalomethanes] | N                | 2024              | .001 -<br>LRAA    | 0 ~ 1  | ppb                      | 0           | 80             | By-product of drinking water chlorination.   |
| Chlorine                               | N                | 2024              | .7-RAA            | .4 -1  | mg/l                     | 0           | MRDL = 4       | Water additive used to control microbes  |

| Contaminant               | Minterior        | T 5-4-            | 1                 | [B   | T                        | F            |               | T  |
|---------------------------|------------------|-------------------|-------------------|--|--------------------------|--------------|---------------|--|
| Contaminant               | Violation<br>Y/N | Date<br>Collected | Level<br>Detected | Range of Detects<br>or # of Samples<br>Exceeding<br>MCL/ACL/MRDL | Unit<br>Measure-<br>ment | MCLG         | MCL           | Likely Source of Contamination   |
| Inorganic                 | : Contan         | ninants -         | - Salts and m     | etals which can occ  | ur naturally i           | n the soil o | r groundwate  | r or may result from urban stormwate   |
| runoff. Industr           | ial or domes     | stic wastewa      | ter discharges    | , oil and gas produc   | tion, mining,            | or farming   | ].            | •  |
| 8. Arsenic                | N                | 2022*             | .6                | No Range   | ppb                      | n/a          | 10            | Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes       |
| 10. Barium                | N                | 2022*             | .169              | No Range   | ppm                      | 2            |               | Discharge of drilling wastes;<br>discharge from metal refineries;<br>erosion of natural deposits             |
| 14. Copper                | N                | 2021/23*          | .5                | 0  | ppm                      | 1.3          | AL=1.3        | Corrosion of household plumbing<br>systems; erosion of natural deposits;<br>leaching from wood preservatives |
| 17. Lead                  | N                | 2021/23*          | 0                 | 0  | ppb                      | 0            | AL=15         | Corrosion of household plumbing systems, erosion of natural deposits   |
| Sodium                    | N                | 2022*             | 39.2              | No Range   | ppm                      | 20           |               | Road Salt, Water Treatment<br>Chemicals, Water Softeners and<br>Sewage Effluents.                            |
| Disinfecti occurring mate | on By-P          | roducts           | - Substance       | s formed when disin  | fectants, like           | Chlorine,    | used to treat | drinking water react with naturally  |
| Chlorine                  | N                | 2024              | .7 - RAA          | .4 – 1.1   | mg/l                     | 0            | MRDL = 4      | Water additive used to control microbes  |

|                                       | 410041                  | Υ                                    | · · · · · · · · · · · · · · · · · · · | TEST RE  |                          |                      |                 |   |
|---------------------------------------|-------------------------|--------------------------------------|---------------------------------------|--|--------------------------|----------------------|-----------------|---|
| Contaminant                           | Violation<br>Y/N        | Date<br>Collected                    | Level<br>Detected                     | Range of Detects or<br># of Samples<br>Exceeding<br>MCL/ACL/MRDL | Unit<br>Measure<br>-ment | MCLG                 | MCL             | Likely Source of Contamination  |
| Radioactive                           | Contam                  | inants –                             | Can cause na                          | aturally or be the result  | of oil and g             | as produc            | ction and m     | ining activities.   |
| 6. Radium 226<br>Radium 228           | N                       | 2020*                                | .58<br>.73                            | No Range   | pCi/L                    | 0                    | 5               | Erosion of natural deposits   |
| Inorganic Corunoff. Industrial or     | ntamina<br>domestic w   | a <b>nts –</b> Salt<br>astewater dis | s and metals<br>charges, oil          | which can occur natur<br>and gas production, mi                  | ally in the s            | oil or grou<br>mina. | ndwater or      | may result from urban stormwater  |
| 8. Arsenic                            | N                       | 2024                                 | 2                                     | No Range   | ppb                      | n/a                  | 10              | Erosion of natural deposits; runoff<br>from orchards; runoff from glass<br>and electronics production wastes    |
| 10. Barium                            | N                       | 2024                                 | .226                                  | No Range   | ppm                      | 2                    | 2               | Discharge of drilling wastes;<br>discharge from metal refineries;<br>erosion of natural deposits                |
| 14. Copper                            | N                       | 2020/22*                             | .1                                    | 0  | ppm                      | 1.3                  | AL=1.3          | Corrosion of household plumbing<br>systems; erosion of natural<br>deposits; leaching from wood<br>preservatives |
| 17. Lead                              | N                       | 2020/22*                             | 4                                     | 0  | ppb                      | 0                    | AL=15           | Corrosion of household plumbing<br>systems, erosion of natural<br>deposits                                      |
| Sodium                                | N                       | 2022*                                | 35.4                                  | 35.2 ~ 35.4  | ppm                      | 20                   |                 | Road Salt, Water Treatment<br>Chemicals, Water Softeners and<br>Sewage Effluents.                               |
| Synthetic Org<br>such as agriculture, | ganic Co<br>urban storr | ontamina<br>nwater runoff            | nts inclu                             | Iding Pesticides   | s and Ho                 | erbicid              | <b>es -</b> May | come from a variety of sources  |
| 34. 1,2-Dibromo 3-<br>Chloropropane   | N                       | 2020*                                | 99                                    | 94 - 99  | ppb                      | . 0                  | 200             | Runoff/leaching from soil fumigant<br>used on soybeans, cotton,<br>pineapples, and orchards                     |
| 41. Ethylene<br>dibromide             | N                       | 2020*                                | 95                                    | No Range   | ppb                      | 0                    | 50              | Discharge from petroleum refineries   |
| Disinfection I                        | By-Prod<br>in the water | ucts - Sul                           | bstances forr                         | ned when disinfectants   | , like Chlori            | ine, used            | to treat drin   | king water react with naturally   |
| 82. TTHM<br>[Total trihalomethanes]   | N                       | 2024                                 | .001-<br>LRAA                         | 0 – 1.68   | ppb                      | 0                    | 80              | By-product of drinking water chlorination.  |
| Chlorine                              | N                       | 2024                                 | 1 - RAA                               | .4– 1.5  | mg/l                     | 0                    | MRDL =          | Water additive used to control microbes   |

| Contaminant               | Violation | Data                           | 1                           |  | 1                          | T 1 1 2 2 2 2 2          |                  | 1   |
|---------------------------|-----------|--------------------------------|-----------------------------|--|----------------------------|--------------------------|------------------|---|
|                           | Y/N       | Date<br>Collected              | Level<br>Detected           | Range of Detects<br>or # of Samples<br>Exceeding<br>MCL/ACL/MRDL | Unit<br>Measure-<br>ment   | MCLG                     | MCL.             | Likely Source of Contamination  |
| runon, maustr             | Contami   | <b>nants –</b> :<br>wastewater | Salts and me<br>discharges, | tals which can occul<br>oil and gas producti                     | naturally in on, mining, o | the soil or our farming. | groundwater o    | r may result from urban stormwate   |
| 10. Barium                | N         | 2022*                          | .135                        | No Range   | ppm                        | 2                        | 2                | Discharge of drilling wastes;<br>discharge from metal refineries;<br>erosion of natural deposits                |
| 14. Copper                | N         | 2020/22*                       | .1                          | 0  | ppm                        | 1.3                      | AL=1.3           | Corrosion of household plumbing<br>systems; erosion of natural<br>deposits; leaching from wood<br>preservatives |
| 17. Lead                  | N         | 2020/22*                       | 1                           | 0  | ppb                        | 0                        | AL=15            | Corrosion of household plumbing<br>systems, erosion of natural<br>deposits                                      |
| Sodium                    | N         | 2022*                          | 22.9                        | No Range   | ppm                        | 20                       |                  | Road Salt, Water Treatment<br>Chemicals, Water Softeners and<br>Sewage Effluents.                               |
| Disinfecti occurring mate | on By-Pro | oducts –<br>ater.              | Substances                  | formed when disinfe  | ectants, like              | Chlorine, us             | sed to treat dri | inking water react with naturally   |
| Chlorine                  | N         | 2024                           | 1- RAA                      | .3– 1  | mg/i                       | 0                        | MRDL = 4         | Water additive used to control microbes   |

| PWS ID                               | ~~~~             |                   | -                 | l ba V   | T RESU                   | '& 1 W     |               |   |
|--------------------------------------|------------------|-------------------|-------------------|--|--------------------------|------------|---------------|---|
| Contaminant                          | Violation<br>Y/N | Date<br>Collected | Level<br>Detected | Range of Detects<br>or # of Samples<br>Exceeding<br>MCL/ACL/MRDL | Unit<br>Measure-<br>ment | MCLG       | MCL.          | Likely Source of Contamination  |
| Inorganic (                          | Contam           | inants –          | Salts and m       | etals which can occ  | ur naturally i           | the soil o | r aroundwate  | r or may result from urban stormwate  |
| runoff. Industria                    | l or domest      | c wastewate       | r discharges      | s, oil and gas produc  | tion, mining,            | or farming |               | or may rosalt from arban stormwate  |
| 14. Copper                           | N                | 2024              | 0 -               | 0  | ppm                      | 1.3        | AL=1.3        | Corrosion of household plumbing<br>systems; erosion of natural deposits<br>leaching from wood preservatives |
| 17. Lead                             | N                | 2024              | 0                 | 0  | ppb                      | 0          | AL=15         | Corrosion of household plumbing systems, erosion of natural deposits  |
| Disinfection Discourring mater       |                  |                   | - Substance       | s formed when disir  | nfectants, like          | Chlorine,  | used to treat | drinking water react with naturally   |
| 31. HAA5                             | N                | 2024              | .022 -<br>LRAA    | 13.1 – 26.2  | ppb                      | 0          | 60            | By-Product of drinking water disinfection.  |
| 32. TTHM<br>Total<br>rihalomethanes] | N                | 2024              | .038 -<br>LRAA    | 27.2 – 47.2  | ppb                      | 0          | 80            | By-product of drinking water chlorination.  |
| Chlorine                             | N                | 2024              | 1.9 - RAA         | 1.4 2  | mg/i                     | 0          | MRDL = 4      | Water additive used to control  |

Sodium. EPA recommends that drinking water sodium not exceed 20 milligrams per liter (mg/L). Excess sodium from salt in the diet increases the risk of high blood pressure and cardiovascular disease.

| PWS ID#                                | f: 0290          | 019                  |  | TEST RES   | ULTS-                    | NEMS       | Regio        | nal Water Supply  |
|--|------------------|----------------------|--|--|--------------------------|------------|--------------|---|
| Contaminant                            | Violation<br>Y/N | Date<br>Collected    | Level<br>Detected                                | Range of Detects<br>or # of Samples<br>Exceeding<br>MCL/ACL/MRDL | Unit<br>Measure-<br>ment | MCLG       | MCL.         | Likely Source of Contamination  |
| Microbio                               | logica           | l Conta              | aminan   | <b>ts</b> – Viruses ai   | nd bacteria              | ı, which ı | may come     | from sewage treatment plants,   |
| 5. Turbidity                           | ns, agricu<br>∐n | 2024                 | tock opera                                       | ations and wildlife  |                          | NA.        | Π            | Soil runoff   |
| Inorgani<br>result from u<br>farming.  | c Cont           | aminai<br>nwater rur | <b>nts –</b> Sa<br>noff. Indus                   | lts and metals w   | hich can o               | ccur nat   | urally in th | e soil or groundwater or may<br>nd gas production, mining, or   |
| 8. Arsenic                             | N                | 2024                 | .5   | No Range   | ppb                      | n/a        | 10           | Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes                    |
| 10. Barium                             | N                | 2024                 | .0192  | No Range   | ppm                      | 2          | 2            | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits                                |
| 13. Chromium                           | N                | 2024                 | 1  | No Range   | ppb                      | 100        | 100          | Discharge from steel and pulp mills; erosion of natural deposits  |
| 16. Fluoride                           | N                | 2024                 | .73  | No Range   | ppm                      | 4          | 4            | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |
| Sodium                                 | N                | 2024                 | 6.52   | No Range   | ppm                      | 20         |              | Road Salt, Water Treatment<br>Chemicals, Water Softeners and<br>Sewage Effluents.   |
| Disinfect<br>water react v             | tion By          | /-Produ              | <b>icts —</b> S                                  | Substances formerals in the water.                               | ed when di               | sinfectar  | nts, like Ch | olorine, used to treat drinking   |
| 81. HAA5                               | N                | 2024                 | .022-<br>LRAA                                    | 9.91 – 27.3  | ppb                      | 0          | 60           | By-Product of drinking water disinfection.  |
| 82. TTHM<br>[Total<br>trihalomethanes] | N                | 2024                 | .04 -<br>LRAA                                    | 26.3 – 48.6  | ppb                      | 0          | 80           | By-product of drinking water chlorination.  |
| Chloramine                             | N                | 2024                 | 2.8  | .94 – 2.9  | mg/l                     | 0          | MRDL = 4     | Water additive used to control microbes   |
| Total Organic<br>Carbon (TOC)          | Z                | Sampled<br>Monthly   | 1.0<br>Removal<br>Ratio<br>(≥1.0 is<br>Required) | 1.0 1.1  | ppm                      | NA         | TT           | Naturally present in the environment  |

<sup>\*</sup> Most recent sample. No sample required for 2024.

\*\* Fluoride level is routinely adjusted to the MS State Dept of Health's recommended level of 0.7 - 1.2 mg/l.

On the NE MS Regional Water Supply District system: Total Organic Carbon (TOC) has no health effects. However, TOC provides a medium for the formation of disinfection byproducts. These byproducts include TTHMs and HAAs. Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

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 addition to the above contaminants, we tested for additional chemicals for which the state and EPA have set standards. We found no detectable levels of those chemicals.

#### LEAD EDUCATIONAL STATEMENT

Lead can cause serious health problems, especially for pregnant women and your 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 and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact our water system. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure are available at <a href="https://www.epa.gov/safewater/lead">https://www.epa.gov/safewater/lead</a>. The MS Public Health Laboratory (MPHL) can provide information on lead and copper testing and/or other laboratories certified to analyze lead and copper in drinking water MPHL can be reached at 601.576.7582.

Our system has completed the Lead Service Line Inventory, and no lead lines were found. The methods used to make that determination were visual inspections, water operator knowledge and archived records. This inventory report is available for viewing at our office upon request.

#### **FLUORIDE INFORMATION**

To comply with the "Regulation Governing Fluoridation of Community Water Supplies", the NEMSRW is required to report certain results pertaining to fluoridation of our water system. The number of months in the previous calendar year in which average fluoride sample results were within the optimal range of 0.6-1.2 ppm was 11. The percentage of fluoride samples collected in the previous calendar year that was within the optimal range of 0.6-1.2 ppm was 92%. The number of months samples were collected and analyzed in the previous calendar year was 12.

# ARSENIC - System # MS0410035

Sample Results: Sample results for our system ranged from 0 – ppm to .0115 ppm during 2024 at levels above the Maximum Contaminant Level (MCL) .010 ppm.

Major Sources (in drinking water): Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.

Health Effects Language: 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.

#### **VIOLATIONS**

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.

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 North Lee County 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.