

# V.A.W. Water System, Inc.

## 2021 Annual Water Quality Report

To better communicate with you -our customer- we have prepared our annual Consumer Confidence Report as authorized by the Environmental Protection Agency through amendments to the Safe Drinking Water Act. This report is designed to inform you of the good quality water and system services provided to you from January 1, 2021 thru December 31, 2021. V.A.W. Water System had **NO VIOLATIONS** of the Alabama Safe Drinking Water Law during 2021, and we expect to have no violations in the upcoming year. We are committed to ensuring the quality of your water.

### ADDITIONAL INFORMATION

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.

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground it dissolves naturally occurring minerals, in some cases radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- A) **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- B) **Inorganic contaminants**, such as salts and metals, which can be naturally occurring or the result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- C) **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- D) **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, urban storm water runoff, and septic systems.
- E) **Radioactive contaminants**, which can be naturally occurring or the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations, which limit the number of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water.

### HEALTH INFORMATION

Some people may be more vulnerable to contaminants in drinking water than the general population. People, who are immune-compromised, such as cancer patients undergoing chemotherapy, organ transplant recipients, HIV/AIDS positive or individuals with other immune system disorders. Particularly the elderly as well as infants can be at risk from infection. People at risk should seek advice about drinking water from their health care provider. 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.

### LEAD STATEMENT

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. V.A.W. 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 Drink Water Hotline or at <http://www.epa.gov/safewater/lead>.

### DIOXIN & ASBESTOS MONITORING STATEMENT

Based on a study conducted by ADEM with the approval of the EPA, a statewide waiver for the monitoring of asbestos and dioxin was issued. Thus, monitoring for these contaminants is not required.

### WATER SOURCE

The V.A.W. Water System currently has two water sources. 1) Water purchased from the City of Cullman, who own and operate a Water Treatment Plant which is governed by the City of Cullman Utilities Board. The water supply is drawn from Lake Catoma which is owned by the City. The City of Cullman Treatment Plant has a total treatment capacity of 24 MGD and is the conventional surface treatment process. 2) Water purchased from the West Morgan East Lawrence Water and Sewer Authority (WM-EL). This source is surface water from the Wheeler Lake Reservoir on the Tennessee River, which is processed at Robert Milton Hames Water Treatment Plant, located at Lock A, near Hillsboro in Lawrence County. WM-EL also has connections with Decatur Utilities for an emergency supply if needed. **TREATMENT TECHNIQUES** - At times it is necessary for V.A.W. Certified Operators to add additional chlorine to the water purchased from WM-EL and City of Cullman. This is done to stay within ADEM guidelines. Both of V.A.W.s water sources have completed a "source water protection plan" as required by EPA. This plan provides information about potential sources of contamination in our source water area and is available at their respective offices.

### BOARD MEMBERS / BOARD MEETINGS

The regular scheduled Board Meetings are held on the third Thursday of each month at 6:00 p.m. Meeting changes will be posted as soon as received. All members are welcome and encouraged to attend. Current Board Members: Jeremy Bozle-Chairman, Joesph Dingler -Vice Chairman, Jay Hollaway - Sec/Treas, Gene Jordan, and Timmy Calvert.

### CONTACTS

For information concerning this report or water quality, please contact Shawn Whittle, at 256-734-2413. For information about our office or daily operations, please contact Donna Gossett, 256-734-2413. Business hours are Monday-Friday, 7:30 a.m. until 4:00 p.m. We are located at 11802 Alabama Highway 157 West, at West Point (256) 734-2413. V.A.W. Water System, Inc. is a proud member of the American Water Works Association, Alabama Rural Water Association, Alabama Water and Pollution Control Association and Alabama One Call. V.A.W. is also a proud sponsor of the Cullman County Water Festival.

**LEGEND AND DEFINITIONS**

90th Percentile -90%=or less than chart

MCLG (Maximum Contaminant Level Goal) - 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.

MCL (Maximum Contaminant Level) - 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.

MFL - million fibers per liter

MRDL (Maximum Residual Disinfectant Level) - The highest level of a disinfectant allowed in drinking water.

There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

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

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

AL (Action Level) - The concentration of a contaminant that triggers treatment or other requirements a water system shall follow.

mrem/yr-millirems per year

ND - not detected

NR - not required

NTU - nephelometric turbidity unit

pCi/l - picocuries per liter

Umhos - expressed microminos per centimeter

ppb - parts per billion

ppm- parts per million

ppq- parts per quadrillion

ppt- parts per trillion

**Table of Detected Contaminants Jan.1 -Dec. 31 2021**

| Contaminant  | MCLG     | MCL           | Cullman Range                               | Cullman Detected                  | WM-EL Range                                     | WM-EL Detected | Likely Source   |
|--|----------|---------------|---|-----------------------------------|---|----------------|---|
| <b>Bacteriological</b> (Turbidity is a measure of cloudiness of water, it is a good indicator of the effectiveness of filtration systems.) |          |               |   |                                   |   |                |   |
| Turbidity (2021)   | 0        | TT            | -   | 0.10 NTU                          | -   | .031NTU        | Soil Runoff   |
| <b>Radiological</b>  |          |               |   |                                   |   |                |   |
| Beta/ photon emitters  | 0        | 4             | -   | ND                                | -   | WAIVED         | Erosion of natural deposits   |
| Combined Radium 226&228 (2020)   | 0        | 5             | -   | 0.0926pci/l                       | 0-5   | ND             | Erosion of natural deposits   |
| Gross Beta in Liquids  | 0        | 15            | -   | ND                                | -   | ND             | Naturally occurring radioactive elements  |
| <b>Inorganic Chemicals</b>   |          |               |   |                                   |   |                |   |
| Barium   | 2        | 2             | -   | 0.03 ppm                          | -   | .025ppm        | Discharge of drilling wastes;discharge from metals refineries;erosion of natural deposits.                                |
| Fluoride   | 0.7      | 4             | ND-0.67                                     | 0.67ppm                           | -   | -              | Erosion of natural deposits;water additive which promotes strong teeth; discharge from fertilizer and aluminum factories. |
| Total Nitrate & Nitrite Nitrate , As N   | 1<br>10  | 10<br>10      | 0.90-0.90<br>0.90-0.90                      | 0.90ppm<br>0.90ppm                | -<br>N/A  | -<br>.31ppm    | Runoff from fertilizer use;leaching from septic tanks,sewage; erosion of natural deposits                                 |
| <b>Organic Chemicals</b>   |          |               |   |                                   |   |                |   |
| Total Organic Carbon   | n/a      | TT            | 1.71 -1.71                                  | 1.71ppm                           | 0-1.07  | .23PPM         | Naturally present in the environment  |
| Chlorine   | MRDLG=4  | MRDLG=4       | 1.79-2.28                                   | 2.00ppm                           | 1.19-2.60                                       | 1.74ppm        | Water additive used to control microbes   |
| Chlorite   | n/a      | 1             | -   | -                                 | 0-.03   | .03ppm         | Water additive used to control microbes   |
| Clorine Dioxide  | n/a      | 0.8           | -   | -                                 | 0-.07   | .07ppm         | Water additive used to control microbes   |
| TTHM   | 0        | 80.0          | 18.0 - 66.0                                 | 39.3ppb                           | 0-34  | 11.8ppb        | By-product of drinking water chlorination   |
| Haloacetic Acids HAA5  | 0        | 60            | 14.4 - 47.0                                 | 27.23ppb                          | 0-16  | 4.1ppb         | By-product of drinking water chlorination   |
| <b>Non-Compliance</b>  |          |               |   |                                   |   |                |   |
| Cryptosporidium  | 0        | TT            | ND-ND                                       | 0.0 oocysts/L                     | 0-3   | 3              | Wildlife and / or human activity  |
| E. coli ( Raw)   | 0        | TT            | 0.00-4                                      | 4mL                               | ND  | 0              | Wildlife and / or human activity  |
| Giardia  | 0        | TT            | 0.00-0.10                                   | 0.10cysts/L                       | 0-5   | 5              | Wildlife and / or human activity  |
| <b>Inorganic Chemicals</b>   |          |               |   |                                   |   |                |   |
| Copper (Tested for every 3 years.)   | 1.3      | AL=1.3ppm     | 30 samples taken, 0 above action level      | 0.22<br>Within 90th Percentile    | No. of sites above action level -0-             | .015ppm        | Corrosion of household plumbing systems;erosion of natural deposits; leaching from wood preservatives.                    |
| Lead (Tested for every 3 years.)   | 0        | AL=15ppb      | 30 samples taken, 0 above action level      | 0.00288<br>Within 90th Percentile | No. of sites above action level -0-             | NDppb          | Corrosion of household plumbing systems; erosion of natural deposits  |
| <b>V.A.W. Results</b>  |          |               |   |                                   |   |                |   |
| Copper   | MCLG 1.3 | MCL AL=1.3ppm | V.A.W. 30 Sites Sites above action level, 0 |                                   | V.A.W. Detected 0.026512 Within 90th Percentile |                | <b>Last tested in 2019 by V. A. W . Certified Operators (Test every 3 years)</b>  |
| Lead   | 0        | AL=15 ppb     | Sites above action level, 0                 |                                   | 0.00106 Within 90th Percentile                  |                |   |
| <b>Organic Chemicals</b>   |          |               |   |                                   |   |                |   |
| HAA5s  | 0        | 60            | 16.1-23.3                                   | 19.0 ppb                          | 0-16  | 4.1ppb         | By-product of drinking water chlorination   |
| TTHM   | 0        | 80            | 15.4-28.2                                   | 21.3ppb                           | 0-34  | 11.8ppb        | By-product of drinking water chlorination   |
| <b>V.A.W. Results</b>  |          |               |   |                                   |   |                |   |
| HAA5s  | 0        | 60            | V.A.W. Range 2021 0.00-45.7                 |                                   | V.A.W. Detected 2021 11.0 ppb                   |                | 2007 IDSE Range 9.2-56.0 By-product of drinking water chlorination  |
| TTHM   | 0        | 80            | 2.20-54.0                                   |                                   | 22.1 ppb  |                | 2007 IDSE Range 59.2-120.0 By-product of drinking water chlorination  |
| <b>Non-Compliance</b>  |          |               |   |                                   |   |                |   |
| TTHM   | 0        | 80            | DSE Monitoring 2.03-68.1                    |                                   | NR ppb  |                | By-product of drinking water chlorination   |
| Haloacetic Acids HAA5  | 0        | 60            | 0.0-45.4                                    |                                   | NR ppb  |                | By-product of drinking water chlorination   |

MCL's are set at very stringent levels. To understand the possible health effects for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect. Total Coliform: The total Coliform Rule requires water systems to meet a stricter limit for coliform bacteria. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found special followup test are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public by newspaper, television or radio.

**Primary Contaminants 2021**

| Contaminant                     | MCL     | Cullman | WM-EL  | Contaminant                | MCL     | Cullman | WM-EL |
|---------------------------------|---------|---------|--------|----------------------------|---------|---------|-------|
| <b>Bacteriological</b>          |         |         |        | Endrin                     | 2 ppb   | ND      | ND    |
| TIt Coliform Bacteria*          | <5%     | ND      | ND     | Epichlorohydrin            | TT      | ND      | ND    |
| Turbidity                       | TT      | 0.10    | 0.031  | Glyphosate                 | 700 ppb | ND      | ND    |
| Fecal Coliform & <i>E. coli</i> | TT      | ND      | ND     | Heptachlor                 | 400 ppt | ND      | ND    |
| Fecal Indicators                | NONE    | ND      | -      | Heptachlor                 | 400 ppt | ND      | ND    |
| <b>Radiological</b>             |         |         |        | Heptachlor epoxide         | 200 ppt | ND      | ND    |
| Beta/Photon emitters (mrem/yr)  | 4       | ND      | Waived | Hexachlorobenzene          | 1 ppb   | ND      | ND    |
| Alpha emitters (pci/l)          | 15      | ND      | ND     | Hexachloropentadiene       | 50ppm   | ND      | ND    |
| Gross Beta in Liq. (pci/L)      | 15      | -       | -      | Lindane                    | 200 ppt | ND      | ND    |
| Combined radium (pci/l)         | 5       | 0.93    | -      |                            |         |         |       |
| Uranium (pci/l)                 | 30      | ND      | -      |                            |         |         |       |
| <b>Inorganic</b>                |         |         |        | Methoxychlor               | 40 ppb  | ND      | ND    |
| Antimony                        | 6 ppb   | ND      | ND     | Oxamyl [Vydate]            | 200 ppb | ND      | ND    |
| Arsenic                         | 10 ppb  | ND      | ND     | PCB's                      | 500 ppt | ND      | ND    |
| Asbestos (MFL)                  | 7       | ND      | Waived | Pentachlorophenol          | 1 ppb   | ND      | ND    |
| Barium                          | 2 ppm   | 0.03    | ND     | Picloram                   | 500 ppb | ND      | ND    |
| Beryllium                       | 4 ppb   | ND      | ND     | Simazine                   | 4 ppb   | ND      | ND    |
| Bromate (ppd)                   | 10ppb   | ND      | -      |                            |         |         |       |
| Cadmium                         | 5 ppb   | ND      | ND     | Toxaphene                  | 3 ppb   | ND      | ND    |
| Chromium                        | 100 ppb | ND      | ND     | Benzene                    | 5 ppb   | ND      | ND    |
| Chloramines                     | 4ppm    | ND      | -      |                            |         |         |       |
| Copper (ppm)                    | AL=1.3  | 0.22    | 0.013  | Carbon Tetrachloride       | 5 ppb   | ND      | ND    |
| Cyanide                         | 200 ppb | ND      | ND     | Chlorobenzene              | 100 ppb | ND      | ND    |
| Fluoride                        | 4 ppm   | 0.670   | ND     | Dibromochloropropane       | 200 ppt | ND      | ND    |
| Lead (ppm)                      | AL=15   | 0.00288 | 0.0013 | 0-Dichlorobenzene          | 600 ppb | ND      | ND    |
| Mercury                         | 2 ppb   | ND      | ND     | p-Dichlorobenzene          | 75 ppb  | ND      | ND    |
| Nitrate                         | 10 ppm  | 0.90    | ND     | 1,2-Dichloroethane         | 5ppb    | ND      | -     |
| Nitrite                         | 1 ppm   | ND      | ND     | 1,1-Dichloroethylene       | 7 ppb   | ND      | ND    |
| Total Nitrate & Nitrite         | 10ppm   | 0.45    | -      |                            |         |         |       |
| Selenium                        | 50ppm   | ND      | ND     | Cis-1,2-Dichloroethylene   | 70 ppb  | ND      | ND    |
| Thallium                        | 2 ppb   | ND      | ND     | trans-1,2-Dichloroethylene | 100 ppb | ND      | -     |
| <b>Organic Chemicals</b>        |         |         |        | Dichloromethane            | 5 ppb   | ND      | ND    |
| 2,4-D                           | 70 ppb  | ND      | ND     | 1,2-Dichloropropane        | 5 ppb   | ND      | ND    |
| 2,4,5-TP (Silvex)               | 50 ppb  | ND      | ND     | Ethylbenzene               | 700 ppb | ND      | ND    |
| Acrylamide                      | TT      | ND      | ND     | Ethylene dibromide         | 50 ppt  | ND      | -     |
| Alachlor                        | 2 ppb   | ND      | ND     | Styrene                    | 100 ppb | ND      | ND    |
| Atrazine                        | 3 ppb   | ND      | ND     | Tetrachloroethylene        | 5 ppb   | ND      | ND    |
| Benzo(a)pyrene (PAHs)           | 200 ppt | ND      | ND     | 1,2,4-Trichlorobenzene     | 70 ppb  | ND      | ND    |
| Carbofuran                      | 40 ppb  | ND      | ND     | 1,1,1-Trichloroethane      | 200 ppb | ND      | ND    |
| Chlordane                       | 2 ppb   | ND      | ND     | 1,1,2-Trichloroethane      | 5 ppb   | ND      | ND    |
| Dalapon                         | 200 ppb | ND      | ND     | Trichloroethylene          | 5 ppb   | ND      | ND    |
| Di-(2-ethylhexyl)adipate        | 400 ppb | ND      | -      | TTHM                       | 80 ppb  | 39.3    | 11.8  |
| Di(2-ethylhexyl)phthalates      | 6 ppb   | ND      | -      | Toluene                    | 1 ppm   | ND      | ND    |
| Dinoseb                         | 7 ppb   | ND      | ND     | Vinyl Chloride             | 2 ppb   | ND      | ND    |
| Diquat                          | 20 ppb  | ND      | ND     | Xylenes                    | 10 ppm  | ND      | ND    |
| Dioxin[2,3,7,8-TCDD]            | 30 ppq  | ND      | ND     | Chlorine                   | 4 ppm   | 2.00    | 1.74  |
| Endothall                       | 100 ppb | ND      | ND     | Chlorine dioxide           | 800ppb  | ND      | 0.07  |
| 1,2 Dichlorobenzene             | 600ppb  | -       | -      | Haloacetic Acids (HAA5)    | 60ppb   | 27.2    | 4.1   |
| 1,4 Dichlorobenzene             | 75ppb   | -       | -      | Chlorite                   | 1ppm    | ND      | 0.03  |
| Bis(2-ethylhexyl)adipate        | 400ppb  | -       | ND     | cis-1,2-Dichloroethene     | 70ppb   | -       | ND    |
| Bis(2-ethylhexyl)phthalate      | 6ppb    | -       | ND     | trans-1,2-Dichloroethane   | 100ppb  | -       | ND    |
|                                 |         |         |        | TOC                        | TT      | 1.71    | 0.23  |

**Secondary Contaminants 2021**

| Contaminant          | MCL      | Cullman | WM-EL |
|----------------------|----------|---------|-------|
| Chloride             | 250 ppm  | 11.30   | 9.2   |
| Sodium (ppm)         | N/A      | 6.11    | 7.00  |
| Sulfate              | 500ppm   | 5.42    | 23.7  |
| TIt Dissolved Solids | 500 ppm  | 55.0    | 117.0 |
| Calcium(ppm)         | N/A      | 9.40    | 21.9  |
| Magnesium(ppm)       | N/A      | 1.53    | 4.8   |
| Aluminum             | 0.2 ppm  | 0.034   | 0.18  |
| Manganese            | 0.05 ppm | 0.01    | 0.01  |

|                        |                |      |        |
|------------------------|----------------|------|--------|
|                        |                |      |        |
| Iron                   | 0.3 ppm        | 0.01 | 0.011  |
| Nickel                 | 0.1 ppm        | ND   | 0.0065 |
| Carbon Dioxide         | N/A            | ND   | ND     |
| Total Hardness (asCaC) | N/A            | 29.8 | 74.5   |
| Color (ppm)            | 15 Color Units | ND   | ND     |
| Silver                 | 0.1 ppm        | ND   | ND     |
| Zinc                   | 5 ppm          | ND   | ND     |
| pH(ppm)                | N/A            | 7.13 | 7.65   |

|                      |        |       |       |
|----------------------|--------|-------|-------|
| TIt Alkalinity(ppm)  | N/A    | 21.4  | 45.5  |
| MBAS                 | .5 ppm | ND    | -     |
| Odor                 | 3 ppm  | ND    | -     |
| Specific Conductance | <500   | 120   | 181   |
| Langelier Index      | N/A    | -     | -1.38 |
| Foaming Agents       | N/A    | -     | -     |
| Copper               | 1 ppm  | 0.220 | -     |
| Fluoride             | 4ppm   | 0.67  | -     |

**Non-Compliance Long Term2 Enhanced Surface Water Rule**

|                 |     |   |   |
|-----------------|-----|---|---|
| Cryptosporidium | 0-3 | - | 3 |
| E.coli (Raw)    | 0   | - | 0 |
| Giardia         | 0-5 | - | 5 |

**DEFINITIONS**

Primary Standards - Used as guides to protect public health.

Primary standards include maximum contaminant levels, maximum contaminant level goals, action levels, and treatment techniques.

Secondary Standards - Guidelines to assure good aesthetic quality of water. Secondary standards apply to contaminants that affect the taste, odor or color of water, stain sinks or bathtubs, or interfere with treatment processes.

Unregulated Contaminants 2021

| Contaminant                     | Cullman Range | Cullman Detected | WM-EL Range | WM-EL Detected | Contaminant                 | Cullman Range | Cullman Detected | WM-EL Range | WM-EL Detected |
|---------------------------------|---------------|------------------|-------------|----------------|-----------------------------|---------------|------------------|-------------|----------------|
| 1,1-Dichloropropene             | 0.0-0.0       | ND               | 0.0-0.0     | ND             | Chloroform (ppm)            | 14-55         | 32.39            | 0.0-0.0042  | 0.0042         |
| 1,1,1,2-Tetrachloroethane       | 0.0-0.0       | ND               | 0.0-0.0     | ND             | Chloromethane               | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| 1,1,2,2-Tetrachloroethane       | 0.0-0.0       | ND               | 0.0-0.0     | ND             | Dibromochloromethane(ppb)   | ND-ND         | ND               | 0.0-0.0     | ND             |
| 1,1-Dichloroethane              | 0.0-0.0       | ND               | 0.0-0.0     | ND             | Dibromomethane              | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| 1,2,3-Trichlorobenzene          | 0.0-0.0       | ND               | 0.0-0.0     | ND             | Dicamba                     | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| 1,2,3-Trichloropropane          | 0.0-0.0       | ND               | 0.0-0.0     | ND             | Dichlorodifluoromethane     | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| 1,2,4-Trimethylbenzene          | 0.0-0.0       | ND               | 0.0-0.0     | ND             | Dieldrin                    | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| 1,3-Dichloropropane             | 0.0-0.0       | ND               | 0.0-0.0     | ND             | Hexachlorobutadiene         | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| 1,3-Dichloropropene             | 0.0-0.0       | ND               | 0.0-0.0     | ND             | Isoprpylbenzene             | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| 1,3,5-Trimethylbenzene          | 0.0-0.0       | ND               | 0.0-0.0     | ND             | M-Dichlorobenzene           | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| 2,2-Dichloropropane             | 0.0-0.0       | ND               | 0.0-0.0     | ND             | Methomyl                    | 0.0-0.0       | ND               | -           | -              |
| 3-Hydroxycarbofuran             | 0.0-0.0       | ND               | -           | -              | MTBE                        | 0.0-0.0       | ND               | -           | -              |
| Aldicarb                        | 0.0-0.0       | ND               | -           | -              | Metolachlor                 | 0.0-0.0       | ND               | -           | -              |
| Aldicarb Sulfone                | 0.0-0.0       | ND               | -           | -              | Metribuzin                  | 0.0-0.0       | ND               | -           | -              |
| Aldicarb Sulfoxide              | 0.0-0.0       | ND               | -           | -              | N-Butylbenzene              | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| Aldrin                          | 0.0-0.0       | ND               | -           | -              | Naphthalene                 | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| Bromobenzene                    | 0.0-0.0       | ND               | 0.0-0.0     | ND             | N-Propylbenzene             | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| Bromochloromethane              | 0.0-0.0       | ND               | 0.0-0.0     | ND             | O-Chlorotoluene             | 0.0-0.0       | ND               | -           | -              |
| Bromodichloromethane(ppm)       | ND-9.6        | 5.99             | 0-.0039     | 0.0039         | P-Chlorotoluene             | 0.0-0.0       | ND               | -           | -              |
| Bromoform(ppb)                  | 0.0-0.0       | ND               | -           | -              | P-Isopropyltoluene          | 0.0-0.0       | ND               | -           | -              |
| Bromomethane                    | 0.0-0.0       | ND               | 0.0-0.0     | ND             | Propachlor                  | 0.0-0.0       | ND               | -           | -              |
| Butachlor                       | 0.0-0.0       | ND               | -           | -              | Sec-Butylbenzene            | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| Carbaryl                        | 0.0-0.0       | ND               | -           | -              | Tert-Butylbenzene           | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| Chloroacetic Acid(ppb)          | -             | -                | -           | -              | Trichlorofluoromethane      | 0.0-0.0       | ND               | 0.0-0.0     | ND             |
| Chloroethane                    | 0.0-0.0       | ND               | 0.0-0.0     | ND             | Trichloroacetic Acid (ppb)  | -             | -                | -           | -              |
| Dichloroacetic Acid(ppb)        | -             | -                | -           | -              | Chromium (Total)            | -             | -                | 0.000-0.000 | ND             |
| Dibromoacetic Acid(ppb)         | -             | -                | -           | -              | Cobalt                      | -             | -                | 0.000-0.000 | ND             |
| Strontium                       | -             | -                | -           | -              | Molybdenum                  | -             | -                | 0.000-0.000 | ND             |
| Vanadium                        | -             | -                | -           | -              | 1,3Butadiene                | -             | -                | 0.000-0.000 | ND             |
| Perfluorodecane Sulfonate       | -             | -                | 0.000-0.000 | ND             | Perfluorononanoic Acid      | -             | -                | 0.000-0.000 | ND             |
| Perfluorodecanoic Acid          | -             | -                | 0.000-0.000 | ND             | Perfluoropentanoic Acid     | -             | -                | 0.000-0.000 | ND             |
| Perfluorododecanoic Acid        | -             | -                | 0.000-0.000 | ND             | Perfluorotetradecanoic Acid | -             | -                | 0.000-0.000 | ND             |
| Perfluoroheptanoic Acid         | -             | -                | -           | -              | PFHpA                       | -             | -                | 0.000-0.000 | ND             |
| Perfluorohexanesulfonic acid    | -             | -                | -           | -              | PFOA (ppt)                  | -             | -                | 0-4         | 4              |
| Perfluorobutanesulfonic acid    | -             | -                | -           | -              | Bromoacetic Acid(ppb)       | -             | -                | -           | -              |
| Chromium-6                      | -             | -                | -           | -              | Perfluorotridecanoic Acid   | -             | -                | 0.000-0.000 | ND             |
| Chlorate                        | -             | -                | -           | -              | Perfluoroundecanoic Acid    | -             | -                | 0.000-0.000 | ND             |
| 1,4-Dioxane                     | -             | -                | -           | -              | Chlorodifluoromethane       | -             | -                | 0.000-0.000 | ND             |
| 2-Chlorotoluene                 | -             | -                | 0.000-0.000 | ND             | Perfluorobutanoic Acid      | -             | -                | -           | -              |
| 4-Chlorotoluene                 | -             | -                | 0.000-0.000 | ND             | Total Organic Carbon        | -             | -                | 0-1.07      | 0.23           |
| Chlormethane                    | -             | -                | 0.000-0.000 | ND             | Bromochloroacetic Acid      | -             | -                | -           | -              |
| Anatoxin-A                      | -             | -                | 0.000-0.000 | ND             | Bromodichloroacetic Acid    | -             | -                | -           | -              |
| Total Microcystins & Nodularins | -             | -                | 0.000-0.000 | ND             | Chlorodibromoacetic Acid    | -             | -                | -           | -              |
| PFNA                            | -             | -                | 0.000-0.000 | ND             | Monobromoacetic Acid        | -             | -                | -           | -              |
| PFHPA                           | -             | -                | 0.000-0.000 | ND             | Tebuconazole                | -             | -                | 0.000-0.000 | ND             |
| Alpha-Hexachlorocyclohexane     | -             | -                | 0.000-0.000 | ND             | Tribufos                    | -             | -                | 0.000-0.000 | ND             |
| Dimethipin                      | -             | -                | 0.000-0.000 | ND             | O-Toluidine                 | -             | -                | 0.000-0.000 | ND             |
| Oxyfluorfen                     | -             | -                | 0.000-0.000 | ND             | 1-Butanol                   | -             | -                | 0.000-0.000 | ND             |

**Unregulated Contaminants 2021**

**Continued**

**Unregulated Contaminant Monitoring Rule ( UCMR 4 )**

The fourth unregulated contaminant monitoring rule requires some systems to monitor for 30 unregulated contaminants during 2018-2020. The table below shows the results of the detected contaminants.

| Contaminant                 | Cullman Range | Cullman Detected | WM-EL Range | WM-EL Detected | Contaminant              | Range       | Detected ppb |  |  |
|-----------------------------|---------------|------------------|-------------|----------------|--------------------------|-------------|--------------|--|--|
| 2-Propen-1-ol               | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| Tribromoacetic Acid         | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| Bromochloromethane          | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| Chlorodifluoromethane       | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| Perfluorobutanoic Acid      | -             | -                | 0.000-0.000 | ND             | Bromochloroacetic acid   | 2.21 -3.39  | 2.7875       |  |  |
| Perfluorodecane sulfonate   | -             | -                | 0.000-0.000 | ND             | Bromodichloroacetic acid | 0.748-2.16  | 1.540875     |  |  |
| Perfluorodecanoic Acid      | -             | -                | 0.000-0.000 | ND             | Chlorodibromoacetic acid | 0.433-2.65  | 1.149        |  |  |
| Perfluorododecanoic Acid    | -             | -                | 0.000-0.000 | ND             | Dibromoacetic acid       | 0.982-2.40  | 1.38025      |  |  |
| Perfluorononanoic Acid      | -             | -                | 0.000-0.000 | ND             | Dichloroacetic acid      | 2.21-4.69   | 3.58125      |  |  |
| Perfluoropentanoic Acid     | -             | -                | 0.000-0.000 | ND             | Monobromoacetic acid     | 0.394-0.552 | 0.335875     |  |  |
| Perfluorotetradecanoic Acid | -             | -                | 0.000-0.000 | ND             | Monochloroacetic acid    | -           | -            |  |  |
| Cylindrospermopsis          | -             | -                | 0.000-0.000 | ND             | Tribromoacetic acid      | 0.0-2.17    | 0.27125      |  |  |
| PFOS (ppt)                  | -             | -                | 0.000-0.000 | -              | Trichloroacetic acid     | 0.917-2.79  | 1.582125     |  |  |
| PFHXS                       | -             | -                | 0.000-0.000 | ND             | Manganese                | 0.696-37.5  | 9.33875      |  |  |
| Germanium                   | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| Chlorpyrifos                | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| Ethoprop                    | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| Profenofos                  | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| Permethrin,cis & trans      | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| Butylated hydroxyanisole    | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| Quinoline                   | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| 2-Methoxyethanol            | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| Monochloroacetic Acid       | -             | -                | 0.000-0.000 | ND             |                          |             |              |  |  |
| PFBS (ppt)                  | -             | -                | -           | -              |                          |             |              |  |  |
|                             |               |                  |             |                |                          |             |              |  |  |
|                             |               |                  |             |                |                          |             |              |  |  |
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|                             |               |                  |             |                |                          |             |              |  |  |

**Unregulated Contaminants** are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.