



*East Alabama Water,
Sewer, and Fire
Protection District*

2021 WATER QUALITY REPORT

East Alabama Water, Sewer and Fire Protection District

2021 Annual Water-Quality Report

We are pleased to present a summary of the quality of the water provided to you during the past year. The Safe Drinking Water Act (SDWA) requires that utilities issue an annual "Consumer Confidence" report to customers in addition to other notices that may be required by law. This report details where our water comes from, what it contains, and the risks our water testing and treatment is designed to prevent. East Alabama Water, Sewer, and Fire Protection District is committed to providing you with the safest and most reliable water supply. Informed consumers are our best allies in maintaining safe drinking water.

Call us for information about the next opportunity for public participation in decisions about our drinking water. The Board of Directors meets every month on the third Thursday of the month at 5:30 PM EST at the District's offices at 150 Fob James Drive Valley, Alabama. The current Board of Directors consists of the following persons: Mr. Terrell Bishop, Mr. Andrew Leak, Mrs. Kim Smith, Mrs. Yvonne Stanford, Mr. Chuck Goodwin, Mr. Kim Williams. For further information concerning this water quality report or any District business, feel free to call the District Manager, Tony Segrest, at (334) 756-7150. You can find us online @ www.eawafd.com, and on [Facebook.com/eastalabamawatersewerandfiredistrict](https://www.facebook.com/eastalabamawatersewerandfiredistrict).

Water Source:

East Alabama Water, Sewer, and Fire Protection District receives its drinking water from the Chattahoochee Valley Water Supply District (CVWSD), which draws the water from the Chattahoochee River in Lanett, Alabama. The District also purchases water from Randolph County Water Authority for use in the Northern section of the County. The CVWSD treatment plant is a surface water treatment plant, which uses oxidation, chemical coagulation, chlorination, fluoridation, pH adjustment and filtration to produce potable water for this area, and is located in Lanett, Alabama. East Alabama also has as-needed connections with the following systems: Beulah Utilities District, City of West Point Georgia.

Source Water Assessment:

Goodwyn, Mills and Cawood, Inc. completed a Source Water Assessment update in 2021 in conjunction with the Alabama Department of Environmental Management and the District. The assessment found sixty-eight (68) potential sources of contamination; these sites were studied and rated by the three entities listed above with six (6) of the sites determined to have moderated risk and sixty-two (62) were determined to have a low risk of contamination to the Districts water source. A complete copy of the District's Source Water Assessment can be reviewed at the District's offices in Valley, Alabama or for a nominal copying fee; a copy can be obtained at the same location.

An Explanation of the Water-Quality Data Table:

The table shows the results of our water-quality analyses. Every regulated contaminant that we detected in the water, even in the minutest traces, is listed here. The table contains the name of each substance, the highest level allowed by regulation (MCL), the ideal goals for public health (MCLG), the amount detected, the usual sources of such contamination, footnotes explaining our findings, and a key to units of measurement.

Important Definitions:

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water; MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

Maximum Residual Disinfectant Level Goal (MRDLG): 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.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

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

(ND) None Detected

Pci/l: Picocuries per Liter (A measure of radiation)

ppm: Parts per Million, or Milligrams per Liter; corresponds to one minute in 2 years or one penny in \$10,000.

ppb: Parts per Billion, or Micrograms Per Liter; corresponds to one minute in 2,000 years or one penny in \$10,000,000

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

East Alabama Water, Sewer and Fire Protection District's drinking water meets or surpasses all federal and state drinking-water standards

Table of Detected Contaminants						
CONTAMINANT	MCLG	MCL	Range	Amount Detected		Likely Source of Contamination
Bacteriological						
Sampling Period- 01/01/2021 to 12/31/2021						
Total Coliform Bacteria (including fecal coliform and E. coli)	0	< 5%	0 - 0	0	Present or Absent	Human and animal fecal waste
Turbidity	0	TT	100% < 0.30	0.10	NTU	Soil runoff
Radiological						
Alpha emitters (Sampling Period – 04/05/16)	0	15	0 - 2.5	2.5	PCI/L	Erosion of natural deposits
Combined radium (Sampling Period - 04/05/16)	0	5	0 - .7	0.7	PCI/L	Erosion of natural deposits
Inorganic Chemicals						
Copper Sampling Period July 2019	1.3	AL=1.3	No. of Sites above action level=0	0.185	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead Sampling Period July 2019	0	AL=.015	No. of Sites above action level =0	0.0018	ppm	Corrosion of household plumbing systems, erosion of natural deposits
Fluoride Sampling Period 01/01/2021 to 12/31/2021	4	4ppm	0.50 - 1.00	0.73	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Selenium 02/18/2021	50	50	NA - 0.26	0.26	ppb	Discharge from petroleum and metal refineries; Erosion of natural deposits: Discharge form mines.
Antimony 02/18/2021	6	6	NA - 0.98	<0.98	ppb	Discharge from petroleum refineries, fire retardants, ceramics, electronics, and solder.
Nitrate Sampling Period 02/18/2021	10	10ppm	ND - 0.791	0.791	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Barium Sampling Period 02/18/2021	2	2	ND - 0.016	0.016	ppm	Discharge of Drilling wastes, discharge from metal refineries; Erosion of natural deposits
Disinfectants and Disinfectant By-Products						
Sampling Period- 01/01/2021 to 12/31/2021						
TTHM (Total Trihalomethanes)	0	80ppb	12.0 - 70.5	39.99	ppb	By-product of drinking water chlorination
HAA5 (Haloacetic Acids)	0	60ppb	6.83 - 46.3	27.78	ppb	By-product of drinking water chlorination
Chlorine (as CL2) Sampling period- 01/01/2021—12/31/2021	4	4ppm	1.50 - 2.20	2.20	ppm	Water additive used to control microbes
Total Organic Carbon (% of Removal)	NA	TT	35% - 43%	38%	Removal	Naturally present in the environment

LEAD-COPPER SCHEDULED TO BE SAMPLED AGAIN FROM JUNE – SEPTEMBER 2022

UNREGULATED CONTAMINANTS TABLE (ppb)				
CONTAMINANT	AVERAGE	RANGE		
Chloroform	29.76	8.5	-	54.3
Bromodichloromethane	8.25	2.73	-	13.4
Dibromochloromethane	1.98	0.76	-	3.12

Table of Primary Contaminants					
At high levels some primary contaminants are known to pose health risks to humans. This table provides a quick glance of any primary contaminant detections.					
Contaminant	MCL	Amount Detected	Contaminant	MCL	Amount Detected
Bacteriological			Benzo(a)pyrene(PHAs) (ppt)	200	ND
Total Coliform Bacteria	<5%	ND	Carbofuran (ppb)	40	ND
Turbidity	TT	0.10	Carbon Tetrachloride (ppb)	5	ND
Fecal Coliform & E. Coli	0	ND	Chlordane (ppb)	2	ND
Radiological			Endothall (ppb)	100	ND
Beta/photo emitters (mrem/yr)	4	ND	Endrin (ppb)	2	ND
Alpha Emitters (pci/l)	15	2.5	Epichlorohydrin	TT	ND
Combined Radium (pci/l)	5	0.7	Ethylbenzene (ppb)	700	ND
Uranium (pci/l)	30	ND	Ethylendibromide (ppt)	50	ND
Inorganic			Glyphosphate (ppb)	700	ND
Antimony (ppb)	6	ND	Haloacetic Acids (ppb)	60	27.78
Arsenic (ppb)	10	ND	Heptachlor (ppt)	400	ND
Asbestos (mfl)	7	ND	Heptachlorepoide (ppt)	200	ND
Barium (ppm)	2	0.0169	Hexachlorobenzene (ppb)	1	ND
Beryllium (ppb)	4	ND	Hexachlorocyclopentadiene (ppm)	50	ND
Bromate (ppb)	10	ND	Lindane (ppt)	200	ND
Cadmium (ppm)	5	ND	Methoxychlor (ppb)	40	ND
Chloramines (ppb)	4	ND	Oxamy(VydTE) (ppB)	200	ND
Chlorine (ppm)	4	1.4-2.2	Pentachlorophenol (ppb)	1	ND
Chlorine Dioxide (ppb)	800	ND	Picloram (ppb)	500	ND
Chlotite (ppm)	1	ND	PCBs (ppt)	500	ND
Chromium (ppb)	100	ND	Simazine (ppb)	4	ND
Copper (ppm) 2019	AL=1.3	0.185	Styrene (ppb)	100	ND
Cyanide (ppb)	200	ND	Tetrachloroethylene (ppb)	5	ND
Flouride (ppm)	4	0.73	Toluene (ppm)	1	ND
Lead (ppb) 2019	AL=15	0.0018	TOC	TT	38%
Mercury (ppb)	2	ND	TTHM (ppb)	80	39.99
Nitrate (ppm)	10	0.791	Toxphene (ppb)	3	ND
Nitrite (ppm)	1	ND	2,4,5-TP(silvex) (ppb)	50	ND
Total Nitrate and Nitrite	10	0.791	1,2,4-Trichlorobenzene (ppb)	70	ND
Selenium (ppb)	50	ND	1,1,1-Trichloroethane (ppb)	200	ND
Thallium (ppb)	2	ND	1,1,2-Trichloroethane (ppb)	5	ND
Inorganic Chemicals			Trichloroethylene (ppb)	5	ND
Atrazine (ppb)	3	ND	Vinyl Chloride (ppb)	2	ND
Benzene (ppbv)	5	ND	Xylenes (ppm)	10	ND

Waivers:

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.

There was one (1) violation of State or Federal drinking water standards in 2021

VIOLATIONS:

The East Alabama Water, Sewer and Fire Protection District purchases its water from the Chattahoochee Valley Water Supply District, which is required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During January-March 2021, the Chattahoochee Valley Water Supply District did not complete all required monitoring for total organic compounds and therefore cannot be sure of the quality of your drinking water during that time.

Total Organic Compounds (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfectant byproducts. These byproducts include Trihalomethanes (THMS) and haloacetic acids (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.

Veolia Water, the operations contractor of the Chattahoochee Valley Water Supply District, had a change in the manager position at this facility and the sample was missed in the transition.

The TOC monitoring sample, that was missed, was scheduled for the first quarter of 2021. The second quarter sample was collected on April 16, 2021, and all samples were well under the limits. The facility software was edited to now include a reminder for this sample to be issued to both the manager and lead operator.

Water-Quality Table Footnotes:

- ◆ Although we ran many tests, only the listed regulated substances were found. They are all below the MCL required.
- ◆ Turbidity and coliform bacteria tests are an indicator of microbiological contamination.
- ◆ During 2021 all turbidity tests were below 0.3 NTU and all coliform bacteria tests were negative.

(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 result from urban storm 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, storm water runoff, and residential uses.

(D) Organic chemical contaminants, including synthetic and volatile organics, 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 be the result of oil and gas production and mining activities.

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 (Environmental Protection Agency), CDC (Center of Disease Control) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Infants and young children are typically more vulnerable to lead in drinking water than the general population. Lead levels at your home may be higher than at other homes in the community because of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

National Primary Drinking Water Regulation Compliance:

We comply with all Federal and State Drinking Water Regulations.

Additional Information for Lead:

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. East Alabama Water Sewer and Fire Protection District is responsible for providing high quality drinking water, but cannot control the variety of material 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 two (2) minutes before using water for drinking or cooking. The Chattahoochee Valley Water Supply District uses of a complex, long linear chain (Polyortho Phosphate) to optimize corrosion control in the water system. This process produces an efficient barrier between the water and the system infrastructure piping, reducing the formation of corrosion scaling and leaching of harmful metals from the piping. Both EPA and ADEM recognize this process in water treatment for meeting the standards required in the 1991 EPA Lead and Copper Rule. This treatment has been used since the implementation of the 1991 Rule with much success producing safe, high quality water for its consumers. If you are concerned about lead in your drinking 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>.

Cryptosporidium Monitoring:

Cryptosporidium is a microbial pathogen found in surface water throughout the United States. Although filtration removes cryptosporidium, the most commonly used filtration methods cannot guarantee 100% removal. The monitoring at the Chattahoochee Valley Water Plant indicates the presence of these organisms in our source water and/or finished water, and current test methods do not allow us to determine if the organisms are dead, or if they are capable of causing disease.

The Chattahoochee Valley Water Supply District was required by EPA and State agencies to test for Cryptosporidium and E. coli. The test required the District to collect one sample per month for twenty-four (24) consecutive months. The results classify which treatment technique would be used to remove the contaminants. The testing was performed by the Montgomery Environmental Lab, with a result of 0.017 oocysts/L, which did not result in a change of treatment technique.

Other Monitoring:

In addition to testing that is required, the East Alabama Water, Sewer, and Fire Protection District in conjunction with the Chattahoochee Valley Water Supply District voluntarily tests for hundreds of additional substances and microscopic organisms to make certain our water is safe and of high quality. If you are interested in a more detailed report or for more information you may contact East Alabama Water, Sewer, and Fire Protection District at (334) 756-7150, **e-mail at customerservice@eawsfd.com**, or write us at **P.O. Box 37, Valley, AL 36854**.