



THE WATER WORKS BOARD OF THE CITY OF AUBURN 2024 CONSUMER CONFIDENCE REPORT



OUR WATER RESOURCES

The Water Works Board of the City of Auburn (AWWB) is proud to present the 2024 Consumer Confidence Report. In compliance with Federal and State laws, the AWWB routinely monitors for numerous contaminants in your drinking water. The tables in this report present the results of water quality monitoring for the calendar year 2024. Your drinking water met all water quality standards in 2024. This is the 28th issue in a series of water quality reports made available to customers annually, as required by the United States Environmental Protection Agency (EPA). Reports are published mid-year for the previous year's monitoring results.

The AWWB's main water supply comes from Lake Ogletree (pictured above), which is located just southeast of Auburn. Lake Ogletree is approximately 300 acres and is fed primarily by Chewacla and Nash Creeks. The total watershed area contributing to the lake is 33 square miles. Water from Lake Ogletree is treated at the James Estes Water Treatment Plant, and accounted for 45.1% of your drinking water in 2024. The AWWB also operates two groundwater wells to meet increasing water demand. These wells draw water from the Chewacla Marble and Hollis Quartzite aquifers. Well #4 contributed 24.7% of your drinking water, and Well #3 provided 13.3% of your drinking water in 2024. In addition to these sources, the AWWB purchases drinking water from Opelika Water, which receives its raw water from Saugahatchee Lake and the Halawakee Creek Embayment on Lake Harding. Drinking water is purchased from Opelika Water to supplement seasonal high demand. Purchases from Opelika Water accounted for 16.9% of your drinking water in 2024. Total water use from all sources was 3.11 billion gallons (8.49 million gallons per day), which is the highest water use on record for the AWWB.

Most drinking water contaminants originate from surface water runoff from natural deposits, vehicles, industry, construction, farming, and wildlife. In addition to mandatory monitoring of its treatment and distribution system, the AWWB voluntarily performs year-round source water monitoring within the Lake Ogletree watershed for nutrients, bacteria, and taste & odor causing compounds. The City of Auburn also helps protect and manage the Lake Ogletree watershed by both regulating development density within its jurisdiction, and working with property owners to encourage best management practices to manage pollutant runoff. Information on the AWWB's monitoring programs, Source Water Assessment, and other information is available at the Bailey-Alexander Water and Sewer Complex, located at 1501 W. Samford Avenue, or online at www.auburnal.gov/water-resource-management/water-operations/Lake-ogletree. Please call (334) 501-3060 for more information.



Above: Completed in 2017, the new spillway added 50 million gallons of capacity to Auburn's primary water source, Lake Ogletree.

Below: The Bailey-Alexander Water and Sewer Complex houses field operations, administration, and billing services.



TABLE OF PRIMARY CONTAMINANTS

At high levels some primary contaminants are known to pose health risks to humans. The table below provides a quick glance of primary contaminants monitored for in 2024, and the results of monitoring if contaminants were detected.

Bacteriological	MCL	Highest Detected	Synthetic Organic Chemicals	MCL	Highest Detected
Total Coliform Bacteria	5%	< 5%	2,4,5-TP (Silvex)	50 ppb	ND
Radiological	MCL	Highest Detected	2,4-D	70 ppb	ND
Gross Alpha	15 pCi/L	0.386	Alachlor (Lasso)	2 ppb	ND
Radium-228	5 pCi/L	0.800	Atrazine	3 ppb	0.025
Turbidity	MCL	Highest Detected	Benzo(A)Pyrene	200 ppt	ND
Turbidity	TT (NTU)	0.21	Carbofuran	40 ppb	ND
Inorganic Chemicals	MCL	Highest Detected	Chlordane	2 ppb	ND
Antimony	6 ppb	ND	Dalapon	200 ppb	ND
Arsenic	10 ppb	0.42†	1,2 Dibromo-3-Chloropropane (DBCP)	200 ppt	ND
Barium	2 ppm	0.019†	Di(2-Ethylhexyl)Adipate	400 ppb	ND
Beryllium	4 ppb	ND	Di(2-Ethylhexyl)Phthalate	6 ppb	ND
Cadmium	5 ppb	ND	Dinoseb	7 ppb	ND
Chlorine	4 ppm MRDL	1.60****	Diquat	20 ppb	ND
Chromium	100 ppb	1	Endothall	100 ppb	ND
Copper	AL = 1.3 ppm	90th percentile value = 0.21	Ethylene Dibromide (EDB)	50 ppt	ND
Cyanide	200 ppb	ND	Endrin	2 ppb	ND
Fluoride	4 ppm	1.31	Glyphosate	700 ppb	ND
Lead	AL = 15 ppb	90th percentile value = 0.865	Heptachlor	400 ppt	ND
Mercury	2 ppb	0.54	Heptachlor Epoxide	200 ppt	ND
Nickel	100 ppb	0.83	Hexachlorobenzene (HCB)	1 ppb	ND
Nitrate	10 ppm	0.461	Hexachlorocyclopentadiene	50 ppb	0.12
Nitrite	1 ppm	ND	Lindane	200 ppt	ND
Selenium	50 ppb	0.95†	Methoxychlor	40 ppb	ND
Thallium	2 ppb	ND	Oxamyl (Vydate)	200 ppb	ND
Disinfection By-products	MCL	Highest Detected	Polychlorinated Biphenyls (PCB)	500 ppt	ND
Total Trihalomethanes (TTHMs)	80 ppb	62.93**	Pentachlorophenol	1 ppb	ND
Haloacetic acids (HAA5)	60 ppb	38.58**	Picloram	500 ppb	ND
Chlorite	1 ppm	0.755*** †	Simazine	4 ppb	ND
Organic Chemicals	MCL	Highest Detected	Toxaphene	3 ppb	ND
Total Organic Carbon	TT (ppm)	1.67*****	Volatile Organic Chemicals	MCL	Highest Detected

LEGEND FOR TABLES

AL	Action Level - The concentration of a contaminant that triggers treatment or other requirement a water system shall follow.
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.
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.
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.
TT	Treatment Technique - A required process intended to reduce the level of a contaminant in drinking water.
ND	Not detected.
N/A	Not applicable.
NTU	Nephelometric Turbidity Unit.
pCi/L	picocuries per liter.
ppt	parts per trillion.
ppb	parts per billion.
ppm	parts per million.
µS/cm	microsiemens per centimeter.
*	Annual average.
**	Local running annual average of quarterly samples.
***	Highest average of sample sets.
****	Compliance is based on a running annual average, computed quarterly from monthly samples.
*****	Running annual average of monthly samples.
†	Amount detected in water purchased from Opelika Water before entering the Auburn Water Works Board distribution system.

1,1,1-trichloroethane	200 ppb	ND
1,1,2-trichloroethane	5 ppb	ND
1,2-dichloroethane	5 ppb	ND
1,1-dichloroethylene	7 ppb	ND
1,2,4-trichlorobenzene	70 ppb	ND
1,2-dichloropropane	5 ppb	ND
O-Dichlorobenzene	600 ppb	ND
P-Dichlorobenzene	75 ppb	ND
Benzene	5 ppb	ND
Carbon Tetrachloride	5 ppb	ND
Chlorobenzene	100 ppb	ND
Cis-1,2-dichloroethene	70 ppb	ND
Ethylbenzene	700 ppb	ND
Styrene	100 ppb	ND
Tetrachloroethylene	5 ppb	ND
Toluene	1 ppm	ND
Trans-1,2 Dichloroethylene	100 ppb	ND
Vinyl chloride	2 ppb	ND
Xylenes	10 ppm	ND
Dichloromethane	5 ppb	ND

Dioxin and 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 was not required.

Copper and Lead results are from the most recent testing done in 2022. These samples are conducted every 3 years. The next round of required sampling is currently scheduled for 2025.

TABLE OF DETECTED CONTAMINANTS

PRIMARY STANDARDS - Mandatory standards set by the Safe Drinking Water Act used to protect public health. These apply to all public water systems.

Contaminant	Unit	MCL	MCLG	Highest Detected Level	Range of Detected Levels	Test Dates	Likely Sources
Turbidity	NTU	TT	N/A	0.21	0.01 - 0.21	Daily	Soil runoff.
Inorganic Chemicals	Unit	MCL	MCLG	Highest Detected Level	Range of Detected Levels	Test Dates	Likely Sources
Arsenic	ppb	10	10	0.42†	ND - 0.42†	5/14, 11/13/2024	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production waste.
Barium	ppm	2	2	0.019†	0.0125† - 0.019†	5/14, 11/13/2024	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Chromium	ppb	100	100	1	0.5† - 1	5/14, 11/13/2024	Erosion of natural deposits; discharge from steel and pulp mills.
Chlorine	ppm	MRDL=4	MRDLG=4	1.60****	(Monthly Average) 1.4 - 1.7	70 samples per month	Water additive used to control microbes.
Copper	ppm	AL = 1.3	1.3	90th percentile value = 0.21	0.0078 - 0.395	July - August	Corrosion of household plumbing systems; erosion of natural deposits.
Fluoride	ppm	4	4	1.31	ND - 1.31	Daily	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Lead	ppb	AL = 15	0	90th percentile value = 0.865	ND - 1.1	July - August	Corrosion of household plumbing systems; erosion of natural deposits.
Nitrate	ppm	10	10	0.461	ND† - 0.461	1/29, 5/14, 11/13/2024	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Nickel	ppb	100	100	0.83	0.34† - 0.83	5/14, 11/13/2024	Corrosion of household plumbing systems; erosion of natural deposits.
Selenium	ppb	50	50	0.95†	ND - 0.95†	5/14, 11/13/2024	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Disinfection Byproducts	Unit	MCL	MCLG	Highest Detected Level	Range of Detected Levels	Test Dates	Likely Sources
Total Trihalomethanes (TTHMs)	ppb	80	N/A	62.93**	26.00** - 62.93**	Quarterly	By-product of drinking water disinfection.
Haloacetic acids (HAA5)	ppb	60	N/A	38.58**	18.03** - 38.58**	Quarterly	By-product of drinking water disinfection.
Chlorite	ppm	1	0.8	0.755*** †	0.49† - 0.92†	Monthly	By-product of drinking water disinfection.
Radiological	Unit	MCL	MCLG	Highest Detected Level	Range of Detected Levels	Test Dates	Likely Sources
Gross Alpha	pCi/L	15	0	0.386	-1.12 - 0.386	1/29, 5/14, 7/15, 11/13/2024	Erosion of natural deposits.
Radium 228	pCi/L	5	0	0.800	-0.0136 - 0.800	1/29, 5/14, 7/15, 11/13/2024	Erosion of natural deposits.
Synthetic Organic Chemicals	Unit	MCL	MCLG	Highest Detected Level	Range of Detected Levels	Test Dates	Likely Sources
Atrazine	ppb	3	3	0.025	ND - 0.025	3/13, 4/2, 8/21, 9/4, 11/5, 11/13/2024	Runoff from herbicide used on row crops.
Hexachlorocyclopentadiene	ppb	50	50	0.12	ND - 0.12	3/13, 4/2, 8/21, 9/4, 11/5, 11/13/2024	Discharge from chemical factories.
PER & POLYFLUOROALKYL COMPOUNDS (PFAS) - a group of manufactured chemicals used in a variety of industries and products since the 1940s. PFAS compounds are found in a wide range of consumer goods, and there is evidence that exposure to high levels of PFAS may lead to adverse health outcomes. The EPA recently announced new MCL's and MCLG's for PFAS compounds in drinking water. More information is available from the EPA at https://www.epa.gov/pfas .							
PFAS Compound		Unit	Highest Detected Level		Range of Detected Levels		Test Dates
PFBS		ppt	3.17		ND - 3.17		Quarterly
PFHxA		ppt	6.7†		ND - 6.7†		Quarterly
PFHpA		ppt	4.39		ND - 4.39		Quarterly
PFHxS		ppt	3.22		ND - 3.22		Quarterly
PFNA		ppt	0.803		ND - 0.803		Quarterly
PFOS		ppt	7.3†		ND - 7.3†		Quarterly
PFOA		ppt	17.7		ND - 17.7		Quarterly
PFAS Compounds Tested For, But Not Detected							
11CI-PF3OUdS		PFDoDa			N-EtFOSAA		HFPO-DA
9CI-PF3ONS		PFTeDA			N-MeFOSAA		PFUnA
ADONA		PFTrDA			PFDA		

TABLE OF DETECTED CONTAMINANTS

SECONDARY STANDARDS - non-mandatory standards established as guidelines to assure good aesthetic qualities such as taste, color, and odor.

Inorganic Chemicals	Unit	MCL	MCLG	Highest Detected Level or Annual Average (*)	Range of Detected Levels	Test Dates	Likely Sources
Chloride	ppm	250	N/A	26.9†	7.92 - 26.9†	5/14, 11/13/2024	By-product of drinking water disinfection.
Iron	ppb	300	N/A	30	ND - 30	Daily	Erosion of natural deposits.
Manganese	ppb	50	N/A	20	ND - 20	Daily	Erosion of natural deposits; runoff from landfills.
Sulfate	ppm	500	N/A	39.6†	11.3 - 39.6†	5/14, 11/13/2024	Erosion of natural deposits.
Total Dissolved Solids	ppm	500	N/A	87†	68 - 87†	5/14, 11/13/2024	Erosion of natural deposits.
Zinc	ppm	5	N/A	0.18	0.00033† - 0.18	5/14, 11/13/2024	Corrosion inhibitor.
pH	units	6.5-8.5	N/A	7.35*	7.00 - 7.60	Daily	Natural deposits; treatment at water plant.
Aluminum	ppm	0.2	N/A	0.0712†	ND - 0.0712†	5/14, 11/13/2024	Erosion of natural deposits.
Unregulated Inorganic Chemicals	Unit	MCL	MCLG	Highest Detected Level or Annual Average (*)	Range of Detected Levels	Test Dates	Likely Sources
Calcium	ppm	N/A	N/A	11.5	3.41† - 11.5	5/14, 11/13/2024	Natural deposits; treatment at water plant.
Specific Conductance	µS/cm	N/A	N/A	153†	125 - 153†	5/14, 11/13/2024	Natural deposits.
Carbon Dioxide	ppm	N/A	N/A	19*	ND† - 42	Daily	Natural deposits.
Magnesium	ppm	N/A	N/A	4.54	1.66† - 4.54	5/14, 11/13/2024	Natural deposits.
Sodium	ppm	N/A	N/A	23.5†	5.81 - 23.5†	5/14, 11/13/2024	Natural deposits.
Alkalinity	ppm	N/A	N/A	54.81*	ND† - 66	Daily	Natural deposits.
Total Hardness	ppm	N/A	N/A	47.5	15.3† - 47.5	5/14, 11/13/2024	Natural deposits.
Unregulated Organic Chemicals	Unit	MCL	MCLG	Highest Detected Level	Range of Detected Levels	Test Dates	Likely Sources
Total Organic Carbon	ppm	TT	N/A	1.67*****	1.51***** - 1.67*****	Monthly	Naturally present in the environment.

AWWB NEWS AND PUBLIC INFORMATION

In accordance with EPA and Alabama Department of Environmental Management (ADEM) regulations, in 2024 the AWWB completed an inventory of the water service lines throughout the distribution system. A water service line is the pipe that connects your home or business to the AWWB's main water pipes. The AWWB owns and maintains the water service line from the water main to the water meter, and the customer owns and maintains the service line from the meter to the customer's home or business. The inventory classified the service lines into three main categories: Lead, Non-Lead, and Galvanized Requiring Replacement. Over 26,000 service lines were inventoried, and all of the service lines were classified as "Non-Lead". As required by EPA and ADEM, the inventory can be found online at <https://static.auburnalabama.org/media/apps/www/water-resource-management/water-operations/Lead-and-copper-information/LSLI.pdf?v=1>.

Corrosion of pipes, plumbing fittings and fixtures may cause metals, including lead and copper, to enter drinking water. To assess corrosion of lead and copper, AWWB conducts tap sampling for lead and copper at selected sites every 3 years. Lead and copper sampling results in the tables of this report are from the most recent testing done in 2022. The complete list of lead tap sampling data from each sample point collected in 2022 is available online at <https://www.auburnal.gov/water-resource-management/water-operations/Lead-and-copper-information>. The next round of required sampling for lead and copper is currently scheduled for 2025.

There are several factors protecting our drinking water from lead contamination within the AWWB's distribution system. Unlike systems where lead contamination has been an issue, the AWWB has excellent drinking water sources with very low corrosivity. Additionally, the pH of the water is adjusted at the water treatment plant so that it is balanced before it enters the distribution system. To further safeguard against corrosion and lead/copper issues, the AWWB treats water using Zinc Orthophosphate at the treatment plant. This compound covers the interior of the pipes with a protective coating to minimize corrosion.

The AWWB continuously strives to provide the highest quality drinking water services for the City's increasing population of 82,025 (2023 U.S. Census Estimate). The AWWB encourages the public to participate in the monthly Board meetings. Board meetings are typically held at 4:00 P.M. on the Thursday following the third Tuesday of each month in the AWWB Conference Room at the Bailey-Alexander Complex located at 1501 W. Samford Avenue. The Water Board members are Brad Wilson (Chair), Bernard Hill, Ph. D. (Vice Chair), David Reaves (Secretary), Celeste Norris, and Thomas Sparrow. If you have any questions concerning public participation or water quality, please call the Water Resource Management Office at (334) 501-3060. If you have questions about setting up an account, water service changes, or billing inquiries, please contact the Utility Billing Office at (334) 501-3050. For additional information, please visit us online at <https://www.auburnal.gov/water-resource-management>.

IMPORTANT HEALTH INFORMATION FROM EPA

All drinking water, including bottled water, may be reasonably expected to contain at least small amounts of 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 United States EPA Safe Drinking Water Hotline at 1-800-426-4791. Sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of land or through the ground, it dissolves naturally occurring minerals and radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Some people may be more vulnerable to contaminants in drinking water than the general population. Individuals with compromised immune systems such as cancer patients undergoing chemotherapy, organ transplant recipients, individuals who have AIDS or who are HIV-positive, individuals with immune system disorders, elderly persons and infants can be particularly at risk from infections. People at risk should seek advice about drinking water from their health care providers. EPA and the Centers for Disease Control (CDC) guidelines for the appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney, or nervous system problems. AWWB is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at <http://epa.gov/safewater/lead>.

WATER TREATMENT PROCESS

Water is pumped from Lake Ogletree to the James Estes Water Treatment Plant. At the plant, a staff of highly trained employees are responsible for the proper maintenance and operation of the various equipment and treatment infrastructure to ensure that your water is consistently treated to levels that meet or exceed Federal and State water quality standards. Below is a diagram outlining this process.

