

General 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 water poses a health risk.



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 from EPA's website at www.epa.gov/safewater/lead.

DEFINITIONS

Action Level: the concentration of a contaminant that, if exceeded, triggers treatment or other requirements.

Coliform Absent (ca): laboratory analysis indicates that the contaminant is not present.

Detected contaminant: any regulated or unregulated contaminant detected at or above its method detection limit (or reportable limit)

Disinfection byproducts (DBPs): formed when disinfectants react with bromide or natural organic matter present in the source water.

Distribution System Evaluation (DSE): a one-time study conducted by water systems to identify distribution system locations with high concentrations of THMs and HAAs.

Local Average (LRAA) – yearly average of all the DBP results at each specific sampling site

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

Maximum Contaminant Level Goal: the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

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

Micrograms per liter (ug/L): equivalent to parts per billion (ppb) since one liter of water is equal in weight to one billion micrograms.

Microsiemens per centimeter (µS/cm): unit of measurement for Specific Conductance.

Milligrams per liter (mg/L): equivalent to parts per million

Millirems per year (mrem/yr): a measure of radiation absorbed by the body.

Nephelometric Turbidity Unit (NTU): a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

90th Percentile: The 90th percentile is equal to or greater than 90% of the lead and copper values detected at your water system.

Not Detected (ND): laboratory analysis indicates that the constituent is not present above detection limits of lab equipment.

Parts per billion (ppb) or Micrograms per liter (ug/l): corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per million (ppm) or Milligrams per liter (mg/l): corresponds to one minute in two years or a single penny in \$10,000,000.

Parts per quadrillion (ppq) or Picograms per liter (picograms/l): corresponds to one minute in 2,000,000,000 years, or a single penny in \$10,000,000,000.

Parts per trillion (ppt) or Nanograms per liter (nanograms/l): corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Picocuries per liter (pCi/L): a measure of the radioactivity in water. **Running Annual Average (RAA):** yearly average of all the DBP results at each specific sampling site in the distribution system. **Standard Units (SU):** pH of water measures the water's balances of acids and bases and is affected by temperature and carbon dioxide gas.

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

Unregulated Contaminants: contaminants for which the EPA has not established MCLs.

Variances & Exemptions (V&E): State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

OEL Exceedance 2022: Based on Stage 2 Disinfection Byproduct (DBP) monitoring results from the first three quarters of 2022, Holtville Water System exceeded the Operational Evaluation Level (OEL) of 80 ug/L for total trihalomethanes (TTHM) at one sampling site, with an OEL calculation result of 84.0 ug/L. An OEL exceedance is not a MCL violation, but rather, it is a prediction or early warning that the MCL for disinfection byproducts may be exceeded in the future. The purpose of the calculation is to alert of potential problems so that preventative measures may be taken.

Upon receiving notice of an OEL exceedance, we performed an OEL evaluation report as required. The evaluation report included information about treatment, storage, and distribution system practices, including any changes that may have affected DBP levels. The report also identified steps we take currently or that we plan to take to reduce disinfection byproduct levels.

The results of our TTHM monitoring for the fourth quarter of 2022 were lower and brought our OEL well below the OEL exceedance level. If you have questions about the OEL exceedance or this report, please contact Greg Welch at 334-569-2105.

More information about contaminants to drinking water and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (1-800-426-4791).

2023 Annual Water Quality Report (Testing Performed January through December 2022)

HOLTVILLE WATER SYSTEM

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Deatsville, AL 36022
Phone 334-569-2105
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We are pleased to present to you this year's Annual Water Quality Report. Our drinking water supply surpassed the strict regulations of the Alabama Department of Environmental Management (ADEM) and the U. S. Environmental Protection Agency (EPA), which requires all water suppliers to prepare and distribute reports like this one every year.

Primary Source	Purchased, pretreated water from Five Star Water Supply (surface water from Lake Jordan)
Secondary Sources	City of Wetumpka, Elmore Water, Alabama Department of Corrections
Emergency Connections	City of Wetumpka and Elmore Water Authority
Storage Capacity	Six tanks with a total capacity of 1,617,000 gal.
Number of Customers	Approximately 3000

Source Water Assessment

In compliance with the Alabama Department of Environmental Management (ADEM), Source Water Assessment Plans have been developed by the water systems that supply your drinking water. These plans assist in protecting our water sources. The plans provide additional information such as potential sources of contamination and a Susceptibility Analysis, which classifies potential contaminants as high, moderate, or non-susceptible to contaminating the water source. It was determined that the Five Star potential contamination sources are at low risk. Please call our office to find out how to review a copy of any of these Plans, or you may obtain a copy for a minimal reproduction fee.

Please help us make this effort worthwhile by protecting our source water. Carefully follow instructions on pesticides and herbicides you use for your lawn and garden, and properly dispose of household chemicals, paints and waste oil.

Questions

If you have any questions about this report or concerning your water utility, please contact Greg Welch at 334-569-2105. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the first Thursday bi-monthly at 7 p.m. at Holtville Water System office (10048 Holtville Road).



HOLTVILLE WATER SYSTEM

10048 Holtville Road
Deatsville, AL 36022



Monitoring Schedule and Results
The Holtville Water System and Five Star Water District *routinely* monitor for constituents in your drinking water according to Federal and State laws. Federal and State laws allow us to monitor some contaminants less than once per year because the concentrations do not change frequently. This report contains results from the most recent monitoring which was performed in accordance with the regulatory schedule.

Below is a table of contaminants for which the Environmental Protection Agency and the Alabama Department of Environmental Management require testing. These contaminants were not detected in your drinking water unless they are also listed in the Detected Drinking Water Contaminants table elsewhere in this report.

STANDARD LIST OF PRIMARY DRINKING WATER CONTAMINANTS

Contaminant	MCL	Unit of Msmt	Contaminant	MCL	Unit of Msmt
Bacteriological Contaminants			trans-1,2-Dichloroethylene	.100	ppb
Total Coliform Bacteria	<5%	present/absent	Dichloromethane	5	ppb
Fecal Coliform and E. coli	0	present/absent	1,2-Dichloropropane	5	ppb
Turbidity	2022	Monthly	Di (2-ethylhexyl)adipate	400	ppb
Cryptosporidium	2022		Di (2-ethylhexyl)phthalate	6	ppb
Radiological Contaminants			Dinoseb	7	ppb
Beta-photon emitters	2022		Dioxin [2,3,7,8-TCDD]	30	ppq
Alpha emitters	2022		mrem/yr	4	mrem/yr
Combined radium	2022		pCi/l	5	ppb
Uranium	2022		pCi/l	30	ppb
Inorganic Chemicals			Epichlorohydrin	2	ppb
Antimony		TT		TT	ppb
Arsenic			Ethylbenzene	700	ppb
Astbestos			Ethylenedibromide	50	ppt
Barium			Glyphosate	700	ppb
Beryllium			Heptachlor	2	ppm
Cadmium			Heptachlor epoxide	4	ppb
Chromium			Hexachlorobenzene	5	ppb
Copper			Hexachlorocyclopentadiene	100	ppb
Cyanide			Lindane	Al=1.3	ppm
Fluoride			Methoxychlor	200	ppb
Lead			Oxamyl [Vydate]	4	ppm
Mercury		AL=15	Polychlorinated biphenyls	0.5	ppb
Nitrate			Pentachlorophenol	2	ppb
Selenium			Picloram	500	ppb
Thallium			Simazine	1	ppm
Organic Contaminants			Tetrachloroethylene	.05	ppm
Toluene			Toluene	.002	ppm
2,4-D			Toxaphene	100	ppb
Acrylamide			2,4,5-TP [Silver]	3	ppb
Alachlor			2,4-Chlorobenzene	50	ppm
Benzene			1,2-Chloroethane	2	ppb
Benz(a)pyrene [PAHs]			1,1,1-Trichloroethane	07	ppm
Carbofuran			1,1,2-Trichloroethane	5	ppb
Carbon tetrachloride			Trichloroethylene	200	ppb
Chlordane			Vinyl Chloride	40	ppb
Chlorobenzene			Xylenes	5	ppb
Dalapon			Disinfectants & Disinfection Byproducts	2	ppm
Dibromochloropropane			Chlorine	100	ppb
Bromoform			Chlorine Dioxide	20	ppb
Bromodichloromethane			Chloramines	1000	ppb
Chlorodibromomethane			Bromate	75	ppb
Secondary Contaminants			Chlorite	600	ppb
Chloride			HAAs [Total haloacetic acids]	5	ppb
Hardness			1,2,3-TTHM [Total trihalomethanes]	7	ppb
Iron			cis-1,2-Dichloroethylene	70	ppb
Manganese			LIST OF UNREGULATED CONTAMINANTS	4	ppm
pH			Aldicarb	800	ppb
Sodium			Bromodichloromethane	200	ppb
Sulfate			Chloroform	4	ppm
Total Dissolved Solids			Chloronmethane	10	ppb
Xinc			Diethylcarbamoylbenzene	10	ppb
[*] Level Detected is 90 th percentile of sample sites.			Dieldrin	60	ppb
			Isopropylbenzene	80	ppb
			M-Dichlorobenzene		
			Butachlor		
			Carbaryl		
			Chloroethane		
			Bromochloromethane		
			Dichlorodifluoromethane		
			1,1,1,2-Tetrachloroethane		
			1,1,2,2-Tetrachloroethane		
			1,1-Dichloroethane		
			1,2,3 - Trichlorobenzene		
			1,2,3 - Trichloropropane		
			1,2,4 - Trimethylbenzene		
			1,3 - Dichloropropene		
			1,3,5 - Trimethylbenzene		
			2,2 - Dichloropropane		
			3-Hydroxycarbofuran		
			MTBE		
			Alkalinity, Total (as CA, Co ₃)		
			Copper		
			Corrosivity		
			Manganese		
			Sodium		
			Sulfate		
			Odor		
			Nickel		
			Hardness		
			Chloride		
			Color		
			Zinc		

FIVE STAR WATER DISTRICT DETECTED DRINKING WATER CONTAMINANTS					
Contaminants	Violation Y/N	Level Detected	Unit Msmt	MCL G	MCL
Turbidity	NO	0.230 *	NTU	none	TT
Copper	NO	0.230 *	ppm	1.3	Al=1.3
Total trihalomethanes (TTHM)	NO	LRRA 70.6	ppb	0	80
Halocatic acids (HAA5)	NO	Range 39.2-99.6	ppb	0	By-product of drinking water chlorination
	NO	LRRA 30.3	ppb	0	By-product of drinking water chlorination
	NO	Range 32.4-34.1	ppb	0	

* Level Detected is 90th percentile of sample sites.

FIVE STAR WATER DISTRICT DETECTED DRINKING WATER CONTAMINANTS					
Contaminants	Violation Y/N	Level Detected	Unit Msmt	MCL G	MCL
Turbidity	NO	0.09	NTU	none	TT
Arsenic	NO	1.61	ppm	6	6
Antimony	NO	ND	ppb	n/a	10
Barium	NO	0.026	ppm	2	2
Chromium	NO	1.1	ppb	100	100
Copper	NO	0.012 *	ppm	1.3	AL=1.3
Fluoride	NO	0.80	ppm	4	4
Lead	NO	ND	ppm	0	AL=0.015
Nitrate (as Nitrogen)	NO	ND	ppm	10	10
Total trihalomethanes (TTHM)	NO	20.3-52.3	ppb	0	80
Halocatic acids (HAA5)	NO	4.66-26.2	ppb	0	60

* Level Detected is 90th percentile of sample sites.

FIVE STAR WATER DISTRICT DETECTED DRINKING WATER CONTAMINANTS					
Contaminants	Violation Y/N	Level Detected	Unit Msmt	MCL G	MCL
Turbidity	NO	18.3-42.0	ppb	70	none
Bromodichloromethane	NO	2.0-10.3	ppb	none	Naturally occurring or from runoff
Chlorodibromomethane	NO	ND-2.1	ppb	60	Naturally occurring or from runoff or industrial discharge
Secondary Contaminants					
Chloride	NO	5.44	ppm	n/a	0.30
Hardness	NO	NR	s.u.	250	Naturally occurring or from runoff
Iron	NO	0.01	ppm	0.30	Naturally occurring or from runoff or industrial discharge
Manganese	NO	0.01	ppm	0.05	Erosion of natural deposits; leaching from pipes
pH	NO	11.1	ppm	8.5	Naturally occurring or from water treatment
Sodium	NO	ppm	none	250	Naturally occurring in the environment
Sulfate	NO	20.2	ppm	none	Naturally occurring in the environment; erosion
Total Dissolved Solids	NO	71.4	ppm	500	Naturally occurring or from runoff
Xinc	NO	ND	ppm	n/a	Erosion; discharge from refineries and factories; landfill runoff

* Level Detected is 90th percentile of sample sites.

PFAS Contaminants – Five Star

Contaminant	Levels Detected	Contaminant	Levels Detected
11-chloroecosulfonato-3-oxaundecane-1-sulfonic acid	ND	Perfluorododecanoic acid	ND
9-chloronexadecafluoro-3-oxane-1-sulfonic acid	ND	Perfluorohexadecanoic acid	.006-.010
4,8-dioxa-3H-perfluorononanoic acid	ND	Perfluorohexanesulfonic acid	.002-.003
Hexafluoropropylene oxide dimer acid/A	ND	Perfluorooctanoic acid	ND
N-ethylperfluorooctane sulfonamidoacetic acid	ND	Perfluorooctanoesulfonic acid	.