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90th Percentile: 90% of samples are equal to or less than the number in the chart.

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not to meet an MCL or a treatment technique under certain conditions

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Some people may be more vulnerable to contaminants in drinking water than the general population. People who are immuno-compromised such as cancer patients undergoing chemotherapy, organ transplant recipients, HIV/AIDS positive or other immune system disorders, some elderly, and infants can be particularly at risk from infections. People at risk 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 (800-426-4791).

Arsenic is a naturally occurring mineral known to cause cancer in humans at high concentrations. While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

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

All drinking water, including bottled water, may be reasonably expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. MCL's, defined in a List of Definitions in this report, are set at very stringent levels. To understand the possible health effects described 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.

County of Cullman 2017 Water Report

Table of Detected Contaminants

CONTAMINANT	MCLG	MCL	Range			City of Cullman Amount Detected		Likely Source of Contamination
YEAR		YEAR 2017						
Turbidity	0	TT				0.10	NTU	Soil runoff
Radiological		YEAR 2017						
Beta/photon emitters	0	4				ND	mrem/yr	Decay of natural and man-made deposits
Gross Beta In Liquids	0	15				ND	pci/l	Naturally occurring Radioactive elements
Radium-228 (2016)	0	5				3.4 +/-0.5	pci/l	Naturally occurring Radioactive elements
Inorganic Chemicals		YEAR 2017						
Barium	2.0	2.0	ND	-	0.0350	0.0350	ppm	Discharge of drilling wastes; discharge from metals refineries; erosion of natural deposits
Copper (2016)	1.3	AL=1.3	All samples below action level. Last tested in 2016. Tested every three years.			0.6	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride	0.7	4.0	0.35	-	1.08	1.08	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead (2016)	0	AL=15	All samples below action level. Last tested in 2016. Tested every three years.			2.00	ppb	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate	1	10	0.00	-	1.78	1.78	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Organic Chemicals		YEAR 2017						
TTHM	0	80	21.7	-	86.0	47.3	ppb	By-product of drinking water chlorination
Haloacetic Acids (HAA5)	0	60	27.0	-	57.0	42.5	ppb	By-product of drinking water chlorination
Total Organic Carbon	0	TT	1.39	-	2.64	2.64	ppm	Naturally present in the environment
Chlorine	MRDLG=4	MRDL=4	1.40	-	3.30	3.30	ppm	Water additive used to control microbes
Non-Compliance		Microbiological (LT2ESWTR)						
Cryptosporidium	0	TT	ND	-	ND	0.00	oocysts/L	Wildlife and /or human activity
E.coli (Raw)	0	TT	0.00	-	4	4	#/100 mL	Wildlife and /or human activity
Giardia	0	TT	0.00	-	0.10	0.10	cysts/L	Wildlife and /or human activity
Non-Compliance		DSE Monitoring						
TTHM	0	80	21.6	-	77.1	50.8	ppb	By-product of drinking water chlorination
Haloacetic Acids (HAA5)	0	60	19.0	-	59.8	41.8	ppb	By-product of drinking water chlorination

Table of Primary Contaminants

At high levels some primary contaminants are known to pose a health risks to humans. This table provides a quick glance of any primary contaminant detections.

CONTAMINANT	MCL	2017 AMOUNT DETECTED	CONTAMINANT	MCL	2017 AMOUNT DETECTED
Bacteriological			Endothall	100	ND
Total Coliform Bacteria	< 5%	0	Endrin	2	ND
Turbidity	TT	0.10	Epichlorohydrin	TT	ND
Radiological			Glyphosate	700	ND
Beta/photon emitters (mrem/yr)	4	ND	HAA5 (ppb)	60	42.5
Alpha emitters (pci/l)	15	ND	Heptachlor	400	ND
Gross Beta in Liquids (pci/L)	15	ND	Heptachlor epoxide	200	ND
Inorganic			Hexachlorobenzene	1	ND
Antimony (ppb)	6	ND	Hexachloropentadiene	1	ND
Arsenic (ppb)	10	ND	Lindane	200	ND
Asbestos (MFL)	7	ND	Methoxychlor	40	ND
Barium (ppm)	2	0.0350	Oxamyl [Vydate]	200	ND
Beryllium (ppb)	4	ND	PCBs	500	ND
Cadmium (ppb)	5	ND	Pentachlorophenol	1	ND
Chromium (ppb)	100	0.002	Picloram	500	ND
Copper (ppm)	AL=1.3	0.060	Simazine	4	ND
Cyanide (ppb)	200	ND	Toxaphene	3	ND
Fluoride (ppm)	4	1.08	Benzene	5	ND
Lead (ppb)	AL=15	2.00	Carbon Tetrachloride	5	ND
Mercury (ppb)	2	ND	Chlorobenzene	100	ND
Nitrate (ppm)	10	1.78	Dibromochloropropane	200	ND
Nitrite (ppm)	1	ND	o-Dichlorobenzene	600	ND
Selenium (ppm)	50	ND	p-Dichlorobenzene	75	ND
Thallium	2	ND	1,2-Dichloroethane	5	ND
Organic Chemicals			1,1-Dichloroethylene	7	ND
2,4-D (ppb)	70	0.30	Cis-1,2-Dichloroethylene	70	ND
2,4,5-TP (Silvex)	50	ND	trans-1,2-Dichloroethylene	100	ND
Acrylamide	TT	ND	Dichloromethane	5	ND
Alachlor	2	ND	1,2-Dichloropropane	5	ND
Atrazine	3	ND	Ethylbenzene	700	ND
Benzo(a)pyrene [PHAs]	200	ND	Ethylene dibromide	50	ND
Carbofuran	40	ND	Styrene	100	ND
Chlordane	2	ND	Tetrachloroethylene	5	ND
Chlorite (ppm)	1	0.38	1,2,4-Trichlorobenzene	70	ND
Chlorine Dioxide (ppm)	0.80	0.219	1,1,1-Trichloroethane	200	ND
Dalapon	200	ND	1,1,2-Trichloroethane	5	ND
Di-(2-ethylhexyl) adipate	400	ND	Trichloroethylene	5	ND
Di(2-ethylhexyl)phthlates	6	1.20	TTHM (ppb)	80	47.3
Dinoseb	7	ND	Toluene	1	ND
Diquat	20	ND	Vinyl Chloride	2	ND
Dioxin[2,3,7,8-TCDD]	30	ND	Xylenes	10	ND

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Unregulated Contaminants Table (2017)

CONTAMINANT	Average	Range	CONTAMINANT	Average	Range
1,1 - Dichloropropene	ND	0.00 - 0.00	Chloroform (ppb)	37.9	15.5 - 67.0
1,1,1,2-Tetrachloroethane	ND	0.00 - 0.00	Chloromethane	ND	0.000 - 0.000
1,1,2,2-Tetrachloroethane	ND	0.00 - 0.00	Dibromochloromethane	ND	0.000 - 0.000
1,1-Dichloroethane	ND	0.00 - 0.00	Dibromomethane	ND	0.000 - 0.000
1,2,3 - Trichlorobenzene	ND	0.00 - 0.00	Dicamba	ND	0.000 - 0.000
1,2,3 - Trichloropropane	ND	0.00 - 0.00	Dichlorodifluoromethane	ND	0.000 - 0.000
1,2,4 - Trimethylbenzene	ND	0.00 - 0.00	Dieldrin	ND	0.000 - 0.000
1,3 - Dichloropropane	ND	0.00 - 0.00	Hexachlorobutadiene	ND	0.000 - 0.000
1,3 - Dichloropropene	ND	0.00 - 0.00	Isoprpylbenzene	ND	0.000 - 0.000
1,3,5 - Trimethylbenzene	ND	0.00 - 0.00	M-Dichlorobenzene	ND	0.000 - 0.000
2,2 - Dichloropropane	ND	0.00 - 0.00	Methomyl	ND	0.000 - 0.000
3-Hydroxycarbofuran	ND	0.00 - 0.00	MTBE	ND	0.000 - 0.000
Aldicarb	ND	0.00 - 0.00	Metolachlor	ND	0.000 - 0.000
Aldicarb Sulfone	ND	0.00 - 0.00	Metribuzin	ND	0.000 - 0.000
Aldicarb Sulfoxide	ND	0.00 - 0.00	N - Butylbenzene	ND	0.000 - 0.000
Aldrin	ND	0.00 - 0.00	Naphthalene	ND	0.000 - 0.000
Bromobenzene	ND	0.00 - 0.00	N-Propylbenzene	ND	0.000 - 0.000
Bromochloromethane	ND	0.00 - 0.00	O-Chlorotoluene	ND	0.000 - 0.000
Bromodichloromethane (ppb)	7.24	5.20 - 9.30	P-Chlorotoluene	ND	0.000 - 0.000
Bromoform	ND	0.00 - 0.00	P-Isopropyltoluene	ND	0.000 - 0.000
Bromomethane	ND	0.00 - 0.00	Propachlor	ND	0.000 - 0.000
Butachlor	ND	0.00 - 0.00	Sec - Butylbenzene	ND	0.000 - 0.000
Carbaryl	ND	0.00 - 0.00	Tert - Butylbenzene	ND	0.000 - 0.000
Chloroethane	ND	0.00 - 0.00	Trichlorfluoromethane	ND	0.000 - 0.000

Secondary Contaminant Standards			YEAR 2017
Substance	Cullman Water		MCL
Chloride	8.56	PPM	250
Sodium	3.57	PPM	Corrosivity
Sulfate	19.4	PPM	250
Total Dissolved Solids	109	PPM	500
Calcium	17.7	PPM	Corrosivity
Magnesium	2.20	PPM	Corrosivity
Aluminum	0.0442	PPM	0.2
Manganese	0.00349	PPM	0.05
Iron	ND	PPM	0.3
Nickel	0.0015	PPM	0.1
Carbon Dioxide	2.64	PPM	Corrosivity
Hardness	48.3	PPM	Corrosivity
Color	ND	Color Units	15
Silver	ND	PPM	0.1
Zinc	ND	PPM	5
pH	6.4	PPM	Corrosivity
Total Alkalinity	13	PPM	Corrosivity
Specific Conductance	13.4	umhos	Corrosivity
MBAS	ND	PPM	500

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umhos: Numerical expression (expressed in micromhos per centimeter). The ability of a water to conduct an electric current.

Mailing Address

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P.O. Box 1084
Cullman, AL 35056

Physical Address

Cullman County Water Dept.
Customer Service
2020 Beech Avenue
Cullman, AL 35055

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Cullman County Commission

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- Kerry Watson, Place 1
- Gary Marchman, Place 2

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