

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
ADMINISTRATIVE CODE

CHAPTER 335-7

APPENDIX A STANDARD LIST OF PRIMARY DRINKING WATER CONTAMINANTS

335-7-B Appendix B - Regulated Contaminants.

APPENDIX B

REGULATED CONTAMINANTS FOR CCR

Contaminant (units)	MCLG	MCL	Major Sources
<i>Total Coliform Bacteria</i>	N/A	TT	Naturally present in the environment
<i>E. coli</i>	MCLG = 0 MCL - Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> .		Human and animal fecal waste

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Fecal Indicators (enterococci or coliphage)	N/A	TT	Human and animal fecal waste
Fecal Indicators (GWR)			
i. <i>E. coli</i>	0	TT	Human and animal fecal waste
ii. Enterococci	None	TT	
iii. coliphage	None	TT	
GWR TT Violations	None	TT	Human and animal fecal waste
Viruses, <i>Giardia</i>	0	TT	Human and animal fecal waste
<i>Legionella</i>	0	TT	Found naturally in water, multiplies in heating systems
Beta/photon emitters (mrem/yr)	0	4	Decay of natural and man-made deposits
Alpha emitters (pCi/l)	0	15	Erosion of natural deposits
Combined radium (pCi/l)	0	5	Erosion of natural deposits
Uranium	0	30 ppb	Erosion of natural deposits
Antimony	6 ppb	6 ppb	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic	0	10 ppb	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Asbestos (MFL)	7	7	Decay of asbestos cement water mains; Erosion of natural deposits
Barium	2	2 ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits

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Beryllium	4 ppb	4 ppb	Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries
Cadmium	5 ppb	5 ppb	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; runoff from waste batteries and paints
Chromium	100 ppb	100 ppb	Discharge from steel and pulp mills; Erosion of natural deposits
Copper	1.3	AL = 1.3 ppm	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Cyanide	200 ppb	200 ppb	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories
Fluoride	4	4ppm	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Lead	0	AL = 15 ppb	Corrosion of household plumbing systems; Erosion of natural deposits

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Mercury	2 ppb	2 ppb	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland
Nitrate	10	10 ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposit
Nitrite	1	1 ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Selenium	50 ppb	50 ppb	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Thallium	0.5 ppb	2 ppb	Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories
Turbidity	n/a	TT	Soil runoff
2,4-D	70 ppb	70 ppb	Runoff from herbicide used on row crops
2,4,5-TP (Silvex)	50 ppb	50 ppb	Residue of banned herbicide
Acrylamide	0	TT	Added to water during sewage/wastewater treatment
Alachlor	0	2 ppb	Runoff from herbicide used on row crops
Atrazine	3 ppb	3 ppb	Runoff from herbicide used on row crops

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Benzo(a)pyrene [PAHs]	0	200 ppt	Reaching from linings of water storage tanks and distribution lines
Carbofuran	40 ppb	40 ppb	Leaching of soil fumigant used on rice and alfalfa
Chlordane	0	2 ppb	Residue of banned termiticide
Dalapon	200 ppb	200 ppb	Runoff from herbicide used on rights of way
Di (2-ethylhexyl)adipate	400 ppb	400 ppb	Discharge from chemical factories
Di (2-ethylhexyl) phthalate	0	6 ppb	Discharge from rubber and chemical factories
Dinoseb	7 ppb	7 ppb	Runoff from herbicide used on soybeans and vegetables
Diquat	20 ppb	20 ppb	Runoff from herbicide use
Dioxin [2,3,7,8-TCDD]	0	30 ppq	Emissions from waste incineration and other combustion; Discharge from chemical factories
Endothall	100 ppb	100 ppb	Runoff from herbicide use
Endrin	2 ppb	2 ppb	Residue of banned insecticide
Epichlorohydrin	0	TT	Discharge from industrial chemical factories; Added to water during treatment process An impurity of some water treatment chemicals.
Glyphosate	700 ppb	700 ppb	Runoff from herbicide use
Heptachlor	0	400 ppt	Residue of banned pesticide.

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Heptachlor epoxide	0	200 ppt	Breakdown of heptachlor
Hexachlorobenzene	0	1 ppb	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclopentadiene	50 ppb	50 ppb	Discharge from chemical factories
Lindane	200 ppt	200 ppt	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	40 ppb	40 ppb	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate]	200 ppb	200 ppb	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
PCBs [Polychlorinated biphenyls]	0	500 ppt	Runoff from landfills; Discharge of waste chemicals
Pentachlorophenol	0	1 ppb	Discharge from wood preserving factories
Picloram	500 ppb	500 ppb	Herbicide runoff
Simazine	4 ppb	4 ppb	Herbicide runoff
Toxaphene	0	3 ppb	Runoff/leaching from insecticide used on cotton and cattle
Benzene	0	5 ppb	Discharge from factories; Leaching from gas storage tanks and landfills
Carbon tetrachloride	0	5 ppb	Discharge from chemical plants and other industrial activities

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Chlorobenzene	100 ppb	100 ppb	Discharge from chemical and agricultural chemical factories
Dibromochloropropane	0	200 ppt	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
o-Dichlorobenzene	600 ppb	600 ppb	Discharge from industrial chemical factories
p-Dichlorobenzene	75 ppb	75 ppb	Discharge from industrial chemical factories
1,2-Dichloroethane	0	5 ppb	Discharge from industrial chemical factories
1,1-Dichloroethylene	7 ppb	7 ppb	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene	70 ppb	70 ppb	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene	100 ppb	100 ppb	Discharge from industrial chemical factories
Dichloromethane	0	5 ppb	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane	0	5 ppb	Discharge from industrial chemical factories
Ethylbenzene	700 ppb	700 ppb	Discharge from petroleum refineries
Ethylene dibromide	0	50 ppt	Discharge from petroleum refineries

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Styrene	100 ppb	100 ppb	Discharge from rubber and plastic factories; Leaching from landfills
Tetrachloroethylene	0	5 ppb	Leaching from PVC pipes; Discharge from factories and dry cleaners
1,2,4-Trichlorobenzene	70 ppb	70 ppb	Discharge from textile-finishing factories
1,1,1-Trichloroethane	200 ppb	200 ppb	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane	3 ppb	5 ppb	Discharge from industrial chemical factories
Trichloroethylene	0	5 ppb	Discharge from metal degreasing sites and other factories
TTHM [Total trihalomethanes]	N/A	80 ppb	By-product of drinking water chlorination
Toluene	1	1 ppm	Discharge from petroleum factories
Vinyl Chloride	0	2 ppb	Leaching from PVC piping; Discharge from plastics factories
Xylenes	10	10 ppm	Discharge from petroleum factories; Discharge from chemical factories
Total organic carbon	N/A	TT	Naturally present in the environment
Bromate	0	10 ppb	By-product of drinking water chlorination
Chloramines	MRDLG = 4	MRDL = 4 ppm	Water additive used to control microbes

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Chlorine	MRDLG = 4	MRDL = 4 ppm	Water additive used to control microbes
Chlorite	800 ppb	1 ppm	By-product of drinking water chlorination
Chlorine Dioxide	MRDLG = 800	MRDL = 800 ppb	Water additive used to control microbes
Haloacetic Acids (HAA5)	N/A	60 ppb	By-product of drinking water disinfection

Key

AL =Action Level

GWR = Ground Water Rule

MCL = Maximum Contaminant Level

MCLG = Maximum Contaminant Level Goal

MFL = million fibers per liter

mg/l = milligrams per liter, or parts per million

mrem/year = millirems per year (a measure of radiation absorbed by the body)

pCi/l = picocuries per liter (a measure of radioactivity)

ppb = parts per billion or micrograms per liter

ppm = parts per million or milligrams per liter

ppq = parts per quadrillion or picograms per liter

ppt = parts per trillion or nanograms per liter

TT = Treatment Technique

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Statutory Authority: Code of Ala. 1975, §§22-23-33, 22-23-49, 22-22A-5, 22-22A-6.

History: New Rule: Filed May 2, 2000; effective June 6, 2000.

Amended: Filed April 25, 2003; effective May 30, 2003. **Amended:**

Filed December 24, 2003; effective January 28, 2004. **Amended:**

Filed December 18, 2007; effective January 22, 2008. **Amended:**

Filed April 21, 2009; effective May 26, 2009. **Amended:** Filed

August 21, 2012; effective September 25, 2012. **Amended:** Filed

October 21, 2014; effective November 25, 2014.