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11/96

TRANSMITTAL SHEET FOR NOTICE OF INTENDED ACTION

Control No. 335 Department or Agency **Environmental Management**
Rule No. 335-7-14 Appendix B
Rule Title: Regulated Contaminants for CCR

____ New X Amend ____ Repeal ____ Adopt by Reference

Would the absence of the proposed rule significantly harm or endanger the public health, welfare, or safety?	YES
Is there a reasonable relationship between the state's police power and the protection of the public health, safety, or welfare?	YES
Is there another, less restrictive method of regulation available that could adequately protect the public?	NO
Does the proposed rule have the effect of directly or indirectly increasing the costs of any goods or services involved and, if so, to what degree?	NO
Is the increase in cost, if any, more harmful to the public than the harm that might result from the absence of the proposed rule?	NO
Are all facets of the rulemaking process designed solely for the purpose of, and so they have, as their primary effect, the protection of the public?	YES

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Does the proposed rule have an economic impact? NO

If the proposed rule has an economic impact, the proposed rule is required to be accompanied by a fiscal note prepared in accordance with subsection (f) of section 41-22-23, Code of Alabama 1975.

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Certification of Authorized Official

I certify that the attached proposed rule has been proposed in full compliance with the requirements of Chapter 22, Title 41, Code of Alabama 1975, and that it conforms to all applicable filing requirements of the Administrative Procedure Division of the Legislative Reference Service.

Signature of certifying officer Mindy Elliott

Date July 21, 2014

Date Filed

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11/96

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION

NOTICE OF INTENDED ACTION

AGENCY NAME: Department of Environmental Management

RULE NO. & TITLE:

335-7-14-.04	Content of Reports (Amend)
335-7-14-.05	Additional Reporting Contents (New)
335-7-14-.06	Required Additional Health Information (Amend)
335-7-14-.07	Report Delivery and Recordkeeping (Amend)
335-7-14 Appendix B	Regulated Contaminants for CCR (Amend)
335-7-14 Appendix C	Health Affects and Required Language for Specific Contaminants (Amend)

INTENDED ACTION: Revise Division 7 of the ADEM Administrative Code.

SUBSTANCE OF PROPOSED ACTION: Revisions to rules 335-7-14-.04; 335-7-14-.06; 335-7-14-.07 are being proposed to reflect applicable application federal requirements and to make administrative corrections. Appendix B is being proposed to separate a grouped contaminant entry into three separate contaminants. Appendix C is being proposed to update terminology. Rule 335-7-14-.06 is proposed to be added for additional reporting content.

TIME, PLACE, MANNER OF PRESENTING VIEWS: Comments may be submitted in writing or orally at a public hearing to be held 2:00 p.m., September 10, 2014, in the ADEM Hearing Room, 1400 Coliseum Blvd., Montgomery, Alabama 36110.

FINAL DATE FOR COMMENT AND COMPLETION OF NOTICE: Wednesday, September 10, 2014 at 5:00 p.m.

CONTACT PERSON AT AGENCY: Christy V. Monk, Chief
Office of Water Services at (334) 394-4364

Marilyn Elliott

Lance R. LeMieur
Director

Appendix B

Regulated Contaminants For CCR

Contaminant (units)	MCLG	MCL	Major Sources
Total Coliform Bacteria	N/A	TT	Naturally present in the environment
E. coli	MCLG = 0 MCL - Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli.*		Human and animal fecal waste
Fecal Indicators (enterococci or coliphage)	N/A	TT	Human and animal fecal waste
~~Total Coliform Bacteria (including fecal coliform and *E. coli*)~~	~~MCLG = 0~~ ~~MCL - presence of coliform bacteria in ≤5% of monthly samples, or if a routine sample and a follow-up repeat sample are total coliform positive and one is also fecal coliform or *E. coli* positive~~		~~Human and animal fecal waste~~
Fecal Indicators (GWR)			Human and animal fecal waste
i. *E. coli*	0	TT	
ii. Enterococci	None	TT	
iii. coliphage	None	TT	
GWR TT Violations	None	TT	Human and animal fecal waste
Viruses, *Giardia*	0	TT	Human and animal fecal waste
Legionella	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

Appendix B

Contaminant (units)	MCLG	MCL	Major Sources
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
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	4 ppm	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
Mercury	2 ppb	2 ppb	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland

Contaminant (units)	MCLG	MCL	Major Sources
Nitrate	10	10 ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
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
Benzo(a)pyrene [PAHs]	0	200 ppt	Leaching 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

Contaminant (units)	MCLG	MCL	Major Sources
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
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
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

Contaminant (units)	MCLG	MCL	Major Sources
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
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

Contaminant (units)	MCLG	MCL	Major Sources
Chloramines	MRDLG = 4	MRDL = 4 ppm	Water additive used to control microbes
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