

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT LAND DIVISION -
HAZARDOUS WASTE PROGRAM
ADMINISTRATIVE CODE**

**CHAPTER 335-14-5
STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT,
STORAGE, AND DISPOSAL FACILITIES**

335-14-5-A9 Appendix IX - Groundwater Monitoring List(1).

Common Name ²	CASRN ³	Chemical Abstracts Service Index Name ⁴
Acenaphthene	83-32-9	Acenaphthylene, 1,2-dihydro-
Acenaphthylene	208-96-8	Acenaphthylene
Acetone	67-64-1	Propanone
Acetophenone	98-86-2	Ethanone, 1-phenyl-
Acetonitrile; Methyl cyanide	75-05-8	Acetonitrile
2-Acetylamino fluorene; 2-AAF	53-96-3	Acetamide, N-9H-fluoren-2-yl-
Acrolein	107-02-8	Propenal
Acrylonitrile	107-13-1	Propenenitrile
Aldrin	309-00-2	1,4:5,8-Dimethano naphthalene, 1,2,3,4,10, 10-hexachloro- 1,4,4a,5, 8,8a-hexahydro- (1 α , 4 α ,4a β ,5 $\alpha\alpha$, 8 α , 8a β)-
Allyl chloride	107-05-1	Propene, 3-chloro-
4-Aminobiphenyl	92-67-1	[1,1'-Biphenyl]-4-amine
Aniline	62-53-3	Benzenamine
Anthracene	120-12-7	Anthracene
Antimony	(Total)	Antimony

Common Name ²	CASRN ³	Chemical Abstracts Service Index Name ⁴
Aramite	140-57	Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]- 1- methylethyl ester
Arsenic	(Total)	Arsenic
Barium	(Total)	Barium
Benzene	71-43	Benzene
Benzo[a]anthracene; Benzanthracene	56-55	Benz[a]anthracene
Benzo[b]fluoranthene	205-99	Benz[e]acephenanthrylene
Benzo[k]fluoranthene	207-08	Benzo[k]fluoranthene
Benzo[ghi]perylene	191-24	Benzo[ghi]perylene
Benzo[a]pyrene	50-32	Benzo[a]pyrene
Benzyl alcohol	100-51	Benzenemethanol
Beryllium	(Total)	Beryllium
alpha-BHC	319-84	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1α, 2α,3β,4β, 5β,6β)-
beta-BHC	319-85	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1α, 2β,3α,4β, 5α, 6β)-
delta-BHC	319-86	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1α, 2α,3α,4β, 5α, 6β)-
gamma-BHC; Lindane	58-89	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1α, 2α,3β,4α, 5α, 6β)-
Bis(2-chloroethoxy) methane	111-91	Ethane, 1,1'-[methylenebis (oxy)]bis[2- chloro-
Bis(2-chloroethyl)ether	111-44	Ethane, 1,1'-oxybis[2-chloro-
Bis(2-chloro-1-methylethyl) ether; 2,2'-Dichloro- diisopropyl ether	108-60	Propane, 2,2'-oxybis[1-chloro-
Bis(2-ethylhexyl) phthalate	117-81	7

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		1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)ester
Bromodichloro-methane	75-27	Methane, bromodichloro-
Bromoform; Tribromomethane	75-25	Methane, tribromo-
4-Bromophenyl phenyl ether	101-55	Benzene, 1-bromo-4-phenoxy-
Butyl benzyl phthalate; Benzyl butyl phthalate	85-68	1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester
Cadmium	(Total)	Cadmium
Carbon disulfide	75-15	Carbon disulfide
Carbon tetrachloride	56-23	Methane, tetrachloro-
Chlordane	57-74	9,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a- hexahydro-
p-Chloroaniline	106-47	Benzenamine, 4-chloro-
Chlorobenzene	108-90	Benzene, chloro-
Chlorobenzilate	510-15	Benzenoacetic acid, 4-chloro-α-(4-chlorophenyl)-α-hydroxy-, ethyl ester
p-Chloro-m-cresol	59-50	Phenol, 4-chloro-3-methyl-

Common Name ²	CASRN ³	Chemical Abstracts Service Index Name ⁴
Chloroethane; Ethyl chloride	75-00	Ethane, chloro-
Chloroform	67-66	Methane, trichloro-
2-Chloronaphthalene	91-58	Naphthalene, 2-chloro-
2-Chlorophenol	95-57	Phenol, 2-chloro-
4-Chlorophenyl phenyl ether	7005-72-3	Benzene, 1-chloro-4-phenoxy-
Chloroprene	126-99	1,3-Butadiene, 2-chloro-
Chromium	(Total)	Chromium

Chrysene	218-01	Chrysene
Cobalt	(Total)	Cobalt
Copper	(Total)	Copper
m-Cresol	108-39	Phenol, 3-methyl-
o-Cresol	95-48	Phenol, 2-methyl-
p-Cresol	106-44	Phenol, 4-methyl-
Cyanide	57-12	Cyanide
2,4-D; 2,4-Dichloro- phenoxyacetic acid	94-75	Acetic acid, (2,4-dichlorophenoxy)-
4,4'-DDD	72-54	Benzene, 1,1'-(2,2- dichloroethylidene)bis[4-chloro-
4,4'-DDE	72-55	Benzene, 1,1'- (dichloroethenylidene)bis[4-chloro-
4,4'-DDT	50-29	Benzene, 1,1'-(2,2,2- trichloroethylidene)bis[4-chloro-
Diallate	2303-16-4	Carbamothioic acid, bis(1-methyl- ethyl)-, S-(2,3-dichloro-2-propenyl) ester
Dibenz[a,h]anthracene	53-70	Dibenz[a,h]anthracene
Dibenzofuran	132-64	Dibenzofuran
Dibromochloro methane; Chlorodi bromomethane	124-48	Methane, dibromochloro-
1,2-Dibromo-3-chloro- propane; DBCP	96-12	Propane, 1,2-dibromo-3-chloro-
1,2-Dibromoethane; Ethylene dibromide	106-93	Ethane, 1,2-dibromo-
Di-n-butyl phthalate	84-74	2,2-Benzenedicarboxylic acid, dibutyl ester
o-Dichlorobenzene	95-50	Benzene, 1,2-dichloro-
m-Dichlorobenzene	541-73	Benzene, 1,3-dichloro-
p-Dichlorobenzene	106-46	Benzene, 1,4-dichloro-

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3,3'-Dichlorobenzidine	91-94-1	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-
trans-1,4-Dichloro-2-butene	110-57-8	2-Butene, 1,4-dichloro-, (E)-
Dichlorodifluoro methane	75-71-8	Methane, dichlorodifluoro-
1,1-Dichloroethane	75-34-3	Ethane, 1,1-dichloro-
1,2-Dichloroethane; Ethylene dichloride	107-06-3	Ethane, 1,2-dichloro-

Common Name ²	CASRN ³	Chemical Abstracts Service Index Name ⁴
1,1-Dichloroethylene; Vinylidene chloride	75-35-4	Ethene, 1,1-dichloro-
trans-1,2-Dichloroethylene	156-60-5	Ethene, 1,2-dichloro-, (E)-
2,4-Dichlorophenol	120-83-2	Phenol, 2,4-dichloro-
2,6-Dichlorophenol	87-65-0	Phenol, 2,6-dichloro-
1,2-Dichloropropane	78-87-5	Propane, 1,2-dichloro-
cis-1,3-Dichloropropene	10061-01-5	1-Propene, 1,3-dichloro-, (Z)-
trans-1,3-Dichloropropene	10061-02-6	1-Propene, 1,3-dichloro-, (E)-
Dieldrin	60-57-1	2,7:3,6-Dimethanonaphth [2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a, 3,6,6a,7,7a-octahydro-, (1a α ,2 β ,2a α ,3 β , 6 β ,6a α , 7 β , 7a α)-
Diethyl phthalate	84-66-2	1,2-Benzenedicarboxylic acid, diethyl ester
O,O-Diethyl O-2-pyrazinyl phosphorothioate; Thionazin	297-97-2	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester
Dimethoate	60-51-5	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester
p-(Dimethylamino) azobenzene	60-11-7	Benzenamine, N,N-dimethyl-4- (phenylazo)

7,12-Dimethylbenz[a]anthracene	57-97-6	Benz[a]anthracene, 7,12-dimethyl-
3,3'-Dimethylbenzidine	119-93-7	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-
alpha, alpha-Dimethylphenethylamine	122-09-8	Benzeneethanamine, α,α - dimethyl-
2,4-Dimethylphenol	105-67-9	Phenol, 2,4-dimethyl-
Dimethyl phthalate	131-11-3	1,2-Benzenedicarboxylic acid, dimethyl ester
m-Dinitrobenzene	99-65-0	Benzene, 1,3-dinitro-
4,6-Dinitro-o-cresol	534-52-1	Phenol, 2-methyl-4,6-dinitro-
2,4-Dinitrophenol	51-28-5	Phenol, 2,4-dinitro-
2,4-Dinitrotoluene	121-14-2	Benzene, 1-methyl-2,4-dinitro-
2,6-Dinitrotoluene	606-20-2	Benzene, 2-methyl-1,3-dinitro-
Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophenol	88-85-7	Phenol, 2-(1-methylpropyl) -4,6-dinitro-
Di-n-octyl phthalate	117-84-0	1,2-Benzenedicarboxylic acid, dioctyl ester
1,4-Dioxane	123-91-1	1,4-Dioxane
Diphenylamine	122-39-4	Benzenamine, N-phenyl-
Disulfoton	298-04-4	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl]ester
Endosulfan I	959-98-8	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9, 10,10-hexachloro- 1,5, 5a,6,9,9a-hexahydro-, 3-oxide, (3 α ,5a β ,6 α ,9 α , 9a β)-
Endosulfan II	33213-65-9	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9, 10,10-hexachloro- 1,5,5a,6, 9,9a-hexahydro- 3-oxide, (3 α ,5a α ,6 β ,9 β , 9a α)-

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Common Name ²	CASRN ³	Chemical Abstracts Service Index Name ⁴
Endosulfan sulfate	1031-07-8	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9, 10,10-hexachloro- 1,5,5a,6, 9,9a-hexahydro-, 3,3-dioxide
Endrin	72-20-8	2,7:3,6-Demethanonaphth[2,3-b]oxirene, 3,4, 5, 6,9,9-hexachloro-,1a,2,2a,3,6,6a,7,7a-octahydro-, (1a α ,2 β ,2a β ,3 α , 6 α ,6a β , 7 β , 7a α)-
Endrin aldehyde	7421-93-4	1,2,4-Methenocyclopenta [cd]pentalene-5-carboxaldehyde, 2,2a,3,3,4,7-hexachlorodecahydro-, (1 α ,2 β , 2a β , 4 β , 4a β ,5 β , 6a β , 6b β ,7R*)-
Ethylbenzene	100-41-4	Benzene, ethyl-
Ethyl methacrylate	97-63-2	2-Propenoic acid, 2-methyl-, ethyl ester
Ethyl methanesulfonate	62-50-0	Methanesulfonic acid, ethyl ester
Famphur	52-85-7	Phosphorothioic acid, O-[4-[(dimethylamino) sulfonyl] phenyl]-O, O-dimethyl ester
Fluoranthene	206-44-0	Fluoranthene
Fluorene	86-73-7	9H-Fluorene
Heptachlor	76-44-8	4,7-Methano-1H-indene,1, 4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-
Heptachlor epoxide	1024-57-3	2,5-Methano-2H-indeno[1, 2-b]oxirene,2, 3,4,5, 6,7,7- heptachloro-1a,1b,5,5a,6, 6a-hexahydro-, (1a α , 1b β ,2 α ,5 α , 5a β ,6 β , 6a α)
Hexachlorobenzene	118-74-1	Benzene, hexachloro-
Hexachlorobutadiene	87-68-3	1,3-Butadiene, 1,1,2,3,4,4- hexachloro-
Hexachlorocyclopentadiene	77-47-4	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-

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Hexachloroethane	67-72-1	Ethane, hexachloro-
Hexachlorophene	70-30-4	Phenol, 2,2'-methylenebis [3,4,6-trichloro-
Hexachloropropene	1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-
2-Hexanone	591-78-6	2-Hexanone
Indeno (1,2,3-cd) pyrene	193-39-5	Indeno[1,2,3-cd]pyrene
Isobutyl alcohol	78-83-1	1-Propanol, 2-methyl-
Isodrin	465-73-6	1,4,5,8-Dimethanonaphthalene,1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a hexahydro-(1 α , 4 α ,4a β ,5 β , 8 β ,8a β)-
Isophorone	78-59-1	2-Cyclohexen-1-one, 3,5,5-trimethyl-
Isosafrole	120-58-1	1,3-Benzodioxole, 5-(1-propenyl)-
Kepone	143-50-0	1,3,4-Metheno-2H-cyclo buta-[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-
Lead	(Total)	Lead
Mercury	(Total)	Mercury
Methacrylonitrile	126-98-7	2-Propenenitrile, 2-methyl-
Methapyrilene	91-80-5	1,2,Ethanediamine, N,N-dimethyl-N'-2-

Common Name ²	CASRN ³	Chemical Abstracts Service Index Name ⁴
		pyridinyl-N'-(2-thienylmethyl)-
Methoxychlor	72-43-5	Benzene, 1,1'-(2,2,2, trichloroethylidene)bis [4-methoxy-
Methyl bromide; Bromomethane	74-83-9	Methane, bromo-
Methyl chloride; Chloromethane	74-87-3	Methane, chloro-

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3-Methylcholanthrene	56-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-
Methylene bromide; Dibromo - methane	74-95-3	Methane, dibromo-
Methylene chloride; Dichloromethane	75-09-2	Methane, dichloro-
Methyl ethyl ketone; MEK	78-93-3	2-Butanone
Methyl iodide; Iodomethane	74-88-4	Methane, iodo-
Methyl methacrylate	80-62-6	2-Propenoic acid, 2-methyl-, methyl ester
Methyl methanesulfonate	66-27-3	Methanesulfonic acid, methyl ester
2-Methylnaphthalene	91-57-6	Naphthalene, 2-methyl-
Methyl parathion; Parathion methyl	298-00-0	Phosphorothioic acid, O,O-dimethyl O- (4-nitrophenyl) ester
4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1	2-Pentanone, 4-methyl-
Naphthalene	91-20-3	Naphthalene
1,4-Naphthoquinone	130-15-4	1,4-Naphthalenedione
1-Naphthylamine	134-32-7	1-Naphthalenamine
2-Naphthylamine	91-59-8	2-Naphthalenamine
Nickel	(Total)	Nickel
o-Nitroaniline	88-74-4	Benzenamine, 2-nitro-
m-Nitroaniline	99-09-2	Benzenamine, 3-nitro-
p-Nitroaniline	100-01-6	Benzenamine, 4-nitro-
Nitrobenzene	98-95-3	Benzene, nitro-
o-Nitrophenol	88-75-5	Phenol, 2-nitro-
p-Nitrophenol	100-02-7	Phenol, 4-nitro-
4-Nitroquinoline 1-oxide	56-57-5	Quinoline, 4-nitro-, 1-oxide
N-Nitrosodi-n-butylamine	924-16-3	1-Butanamine, N-butyl-N-nitroso-
N-Nitrosodiethylamine	55-18-5	Ethanamine, N-ethyl-N-nitroso-
N-Nitrosodimethylamine	62-75-9	Methanamine, N-methyl-N-nitroso-
N-Nitrosodiphenylamine	86-30-6	Benzenamine, N-nitroso-N-phenyl-

N-Nitrosodipropylamine; Di-n-propylnitrosamine	621-64-7	1-Propanamine, N-nitroso-N-propyl-
N-Nitrosomethylethalamine	10595-95-6	Ethanamine, N-methyl-N-nitroso-
N-Nitrosomorpholine	59-89-2	Morpholine, 4-nitroso-
N-Nitrosopiperidine	100-75-4	Piperidine, 1-nitroso-

Common Name ²	CASRN ³	Chemical Abstracts Service Index Name ⁴
N-Nitrosopyrrolidine	930-55-2	Pyrrolidine, 1-nitroso-
5-Nitro-o-toluidine	99-55-8	Benzenamine, 2-methyl-5-nitro-
Parathion	56-38-2	Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester
Polychlorinated biphenyls; PCBs	See Note 4	1,1'-Biphenyl, chloro derivatives
Polychlorinated dibenzo-p-dioxins; PCDDs	See Note 5	Dibenzo[b,e][1,4]dioxin, chloro derivatives
Polychlorinated dibenzofurans; PCDFs	See Note 6	Dibenzofuran, chloro derivatives
Pentachlorobenzene	608-93-5	Benzene, pentachloro-
Pentachloroethane	76-01-7	Ethane, pentachloro-
Pentachloronitro-benzene	82-68-8	Benzene, pentachloronitro-
Pentachlorophenol	87-86-5	Phenol, pentachloro-
Phenacetin	62-44-2	Acetamide, N-(4-ethoxyphenyl)
Phenanthrene	85-01-8	Phenanthrene
Phenol	108-95-2	Phenol
p-Phenylenediamine	106-50-3	1,4-Benzenediamine

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Phorate	298-02-2	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio) methyl] ester
2-Picoline	109-06-8	Pyridine, 2-methyl-
Pronamide	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-
Propionitrile; Ethyl cyanide	107-12-0	Propanenitrile
Pyrene	129-00-0	Pyrene
Pyridine	110-86-1	Pyridine
Safrole	94-59-7	1,3-Benzodioxole, 5-(2-propenyl)-
Selenium	(Total)	Selenium
Silver	(Total)	Silver
Silvex; 2,4,5-TP	93-72-1	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-
Styrene	100-42-5	Benzene, ethenyl-
Sulfide	18496-25-8	Sulfide
2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid	93-76-5	Acetic acid, (2,4,5-trichlorophenoxy)-
2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodi benzo-p-dioxin	1746-01-6	Dibenzo[b,e][1,4]dioxin, 2,3,7,8-tetrachloro-
1,2,4,5-Tetrachlorobenzene	95-94-3	Benzene, 1,2,4,5-tetrachloro-
1,1,1,2-Tetrachloroethane	630-20-6	Ethane, 1,1,1,2-tetrachloro-
1,1,2,2-Tetrachloroethane	79-34-5	Ethane, 1,1,2,2-tetrachloro-
Tetrachloroethylene; Perchloroethylene; Tetrachloroethene	127-18-4	Ethene, tetrachloro-
Common Name ¹	CASRN ²	Chemical Abstracts Service Index Name ³
2,3,4,6-Tetrachlorophenol	58-90-2	Phenol, 2,3,4,6-tetrachloro-

Tetraethyl dithiopyro-phosphate; Sulfotepp	3689-24- ⁴	Thiodiphosphoric acid, ((HO) ₂ P(S)] ₂ O), tetraethyl ester
Thallium	(Total)	Thallium
Tin	(Total)	Tin
Toluene	108-88-3	Benzene, methyl-
o-Toluidine	95-53-4	Benzenamine, 2-methyl-
Toxaphene	8001-35-2	Toxaphene
1,2,4-Trichlorobenzene	120-82-1	Benzene, 1,2,4-trichloro-
1,1,1-Trichloroethane; Methylchloroform	71-55- ⁵	Ethane, 1,1,1-trichloro-

Common Name ¹	CASRN ²	Chemical Abstracts Service Index Name ³
1,1,2-Trichloroethane	79-00-5	Ethane, 1,1,2-trichloro-
Trichloroethylene; Trichloroethene	79-01-6	Ethene, trichloro-
Trichlorofluoromethane	75-69-4	Methane, trichlorofluoro-
2,4,5-Trichlorophenol	95-95-4	Phenol, 2,4,5-trichloro-
2,4,6-Trichlorophenol	88-06-2	Phenol, 2,4,6-trichloro-
1,2,3-Trichloropropane	96-18-4	Propane, 1,2,3-trichloro-
O,O,O-Triethyl phosphorothioate	126-68-1	Phosphorothioic acid,O,O,O-triethyl ester
sym-Trinitrobenzene	99-35-4	Benzene, 1,3,5-trinitro-
Vanadium	(Total)	Vanadium

Vinyl acetate	108-05-4	Acetic acid, ethenyl ester
Vinyl chloride	75-01-4	Ethene, chloro-
Xylene (total)	1330-20-7	Benzene, dimethyl-
Zinc	(Total)	Zinc

¹ Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

² Chemical Abstracts Service registry number. Where "Total" is entered, all species in the groundwater that contain this element are included.

³ CAS index names are those used in the 9th Cumulative Index.

⁴ Polychlorinated biphenyls (CAS RN 1336-36-3): this category contains congener chemicals, including constituents of Aroclor-1016 (CAS RN 12674-11-2), Aroclor-1221 (CAS RN 11104-28-2), Aroclor-1232 (CAS RN 11141-16-5), Aroclor-1242 (CAS RN 53469-21-9), Aroclor-1248 (CAS RN 12672-29-6), Aroclor-1254 (CAS RN 11097-69-1), and Aroclor-1260 (CAS RN 11096-82-5).

⁵ This category contains congener chemicals, including tetrachlorodibenzo-p-dioxins (see also 2,3,7,8-TCDD), pentachlorodibenzo-p-dioxins, and hexachlorodibenzo-p-dioxins.

⁶ This category contains congener chemicals, including tetrachlorodibenzofurans, pentachlorodibenzofurans, and hexachlorodibenzofurans.

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