

Chapter NR 635

APPENDIX I

GROUNDWATER MONITORING LIST¹

Common name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested methods ⁵	PQL (µ/L) ⁶
Acenaphthene	00083-32-9	Acenaphthylene, 1,2-dihydro-	8100 8270	200 10
Acenaphthylene	00208-96-8	Acenaphthylene	8100 8270	200 10
Acetone	00067-64-1	2-Propanone	8240	100
Acetophenone	00098-86-2	Ethanone, 1-phenyl-	8270	10
Acetonitrile; Methyl cyanide	00075-05-8	Acetonitrile	8015	100
2-Acetylaminofluorene; 2-AAF	00053-96-3	Acetamide, N-9H-fluoren-2-yl-	8270	10
Acrolein	00107-02-8	2-Propenal	8030 8240	5 5
Acrylonitrile	00107-13-1	2-Propenenitrile	8030 8240	5 5
Aldrin	00309-00-2	1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro- 1,4,4a,5,8,8a-hexahydro-(1alpha,4alpha, 4beta,5alpha,8alpha-,8beta)-	8080 8270	0.05 10
Allyl chloride	00107-05-1	1-Propene, 3-chloro-	8010 8240	5 100
4-Aminobiphenyl	00092-67-1	[1,1'-Biphenyl]-4-amine	8270	10
Aniline	00062-53-3	Benzenamine	8270	10
Anthracene	00120-12-7	Anthracene	8100 8270	200 10
Antimony	(Total)	Antimony	6010 7040 7041	300 2,000 30
Aramite	00140-57-8	Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methyl- ethyl ester	8270	10
Arsenic	(Total)	Arsenic	6010 7060 7061	500 10 20
Barium	(Total)	Barium	6010 7080	20 1,000
Benzene	00071-43-2	Benzene	8020 8240	2 5
Benzo[a]anthracene; Benzanthracene	00056-55-3	Benzo[a]anthracene	8100 8270	200 10
Benzo[b]fluoranthene	00205-99-2	Benzo[e]acephenanthrylene	8100 8270	200 10
Benzo[k]fluoranthene	00207-08-9	Benzo[k]fluoranthene	8100 8270	200 10
Benzo[ghi]perylene	00191-24-2	Benzo[ghi]perylene	8100	200

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			8270	10
Benzo[a]pyrene	00050-32-8	Benzo[a]pyrene	8100	200
			8270	10
Benzyl alcohol	00100-51-6	Benzenemethanol	8270	20
Beryllium	(Total)	Beryllium	6010	3
			7090	50
			7091	2
alpha-BHC	00319-84-6	Cyclohexane, 1,2,3,4,5,6-hexachloro- (1alpha,2alpha,3beta,4alpha,5beta- ,6beta)-	8080	0.05
			8250	10
beta-BHC	00319-85-7	Cyclohexane, 1,2,3,4,5,6-hexachloro- (1alpha,2beta,3alpha,4beta,5alpha-,6beta)-	8080	0.05
			8250	40
delta-BHC	00319-86-8	Cyclohexane, 1,2,3,4,5,6-hexachloro- (1alpha,2alpha,3alpha,4beta,5alpha-,6beta)-	8080	0.1
			8250	30
gamma-BHC; Lindane	00058-89-9	Cyclohexane, 1,2,3,4,5,6-hexachloro- (1alpha,2alpha,3beta,4alpha,5alpha-,6beta)-	8080	0.05
			8250	10
Bis(2-chloroethoxy)methane	00111-91-1	Ethane, 1,1'-[methylene- bis(oxy)]bis-[2-chloro-	8270	10
Bis(2-chloroethyl)ether	00111-44-4	Ethane, 1,1'-oxybis[2-chloro-	8270	10
Bis(2-chloro-1-methylethyl)ether; 2,2'-Dichlorodisopropyl ether	00108-60-1	Propane, 2,2'-oxybis[1-chloro-	8010	100
			8270	10
Bis(2-ethylhexyl) phthalate	00117-81-7	1,2-Benzenedicarboxylic acid, bis(2-ethyl- hexyl)ester	8060	20
			8270	10
Bromodichloromethane	00075-27-4	Methane, bromodichloro-	8010	1
			8240	5
Bromoform; Tribromomethane	00075-25-2	Methane, tribromo-	8010	2
			8240	5
4-Bromophenyl phenyl ether	00101-55-3	Benzene, 1-bromo-4-phenoxy-	8270	10
Butyl benzyl phthalate; Benzyl butyl phthalate	00085-68-7	1,2-Benzenedicarboxylic acid, butyl phenyl- methyl ester	8060	5
			8270	10
Cadmium	(Total)	Cadmium	6010	40
			7130	50
			7131	1
Carbon disulfide	00075-15-0	Carbon disulfide	8240	5
Carbon tetrachloride	00056-23-5	Methane, tetrachloro-	8010	1
			8240	5
Chlordane	00057-74-9	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octa- chloro-2,3,3a,4,7,7a-hexahydro-	8080	0.1
			8250	10
p-Chloroaniline	00106-47-8	Benzenamine, 4-chloro-	8270	20
Chlorobenzene	00108-90-7	Benzene, chloro-	8010	2
			8020	2
			8240	5
Chlorobenzilate	00510-15-6	Benzeneacetic acid, 4-chloro-alpha-(4-chlo- rophenyl)-alpha-hydroxy-, ethyl ester	8270	10
p-Chloro-m-cresol	00059-50-7	Phenol, 4-chloro-3-methyl-	8040	5
			8270	20
Chloroethane; Ethyl chloride	00075-00-3	Ethane, chloro-	8010	5
			8240	10
Chloroform	00067-66-3	Methane, trichloro-	8010	0.5
			8240	5
2-Chloronaphthalene	00091-58-7	Naphthalene, 2-chloro-	8120	10
			8270	10

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2-Chloropheno	00095-57-8	Phenol, 2-chloro	8040 8270	5 10
4-Chlorophenyl phenyl ether	07005-72-3	Benzene, 1-chloro-4-phenoxy	8270	10
Chloroprene	00126-99-8	1,3-Butadiene, 2-chloro	8010 8240	50 5
Chromium	(Total)	Chromium	6010 7190 7191	70 500 10
Chrysene	00218-01-9	Chrysene	8100 8270	200 10
Cobalt	(Total)	Cobalt	6010 7200 7201	70 500 10
Coppre	(Total)	Copper	6010 7210	60 200
m-Cresol	00108-39-4	Phenol, 3-methyl	8270	10
o-Cresol	00095-48-7	Phenol, 2-methyl	8270	10
p-Cresol	00106-44-5	Phenol, 4-methyl	8270	10
Cyanide	00057-12-5	Cyanide	9010	40
2,4-D; 2,4-Dichlorophenoxy-acetic acid	00094-75-7	Acetic acid, (2,4-dichlorophenoxy)	8150	10
4,4'-DDD	00072-54-8	Benzene 1,1'-(2,2-dichloroethylidene)bis[4-chloro-	8080 8270	0.1 10
4,4'-DDE	00072-55-9	Benzene, 1,1'-(dichloroethenyldene)bis[4-chloro-	8080 8270	0.05 10
4,4'-DDT	00050-29-3	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-	8080 8270	0.1 10
Diallate	02303-16-4	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester	8270	10
Dibenz[a,h]anthracene	00053-70-3	Dibenz[a,h]anthracene	8100 8270	200 10
Dibenzofuran	00132-64-9	Dibenzofuran	8270	10
Dibromochloromethane; Chlorodibromomethane	00124-48-1	Methane, dibromochloro	8010 8240	1 5
1,2-Dibromo-3-chloropropane; DBCP	00096-12-8	Propane, 1,2-dibromo-3-chloro	8010 8240 8270	100 5 10
1,2-Dibromoethane; Ethylene dibromide	00106-93-4	Ethane, 1,2-dibromo	8010 8240	10 5
Di-n-butyl phthalate	00084-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester	8060 8270	5 10
o-Dichlorobenzene	00095-50-1	Benzene, 1,2-dichloro	8010 8020 8120 8270	2 5 10 10
m-Dichlorobenzene	00541-73-1	Benzene, 1,3-dichloro	8010 8020 8120 8270	5 5 10 10
p-Dichlorobenzene	00106-46-7	Benzene, 1,4-dichloro	8010 8020 8120 8270	2 5 15 10
3,3'-Dichlorobenzidine	00091-94-1	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-	8270	20
trans-1,4-Dichloro-2-butene	00110-57-6	2-Butene, 1,4-dichloro-, (E)-	8240	5

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Dichlorodifluoromethane	00075-71-8	Methane, dichlorodifluoro-	8010 8240	10 5
1,1-Dichloroethane	00075-34-3	Ethane, 1,1-dichloro-	8010 8240	1 5
1,2-Dichloroethane; Ethylene dichloride ...	00107-06-2	Ethane, 1,2-dichloro-	8010 8240	0.5 5
1,1-Dichloroethylene; Vinylidene chloride ..	00075-35-4	Ethene, 1,1-dichloro-	8010 8240	1 5
trans-1,2-Dichloroethylene	00156-60-5	Ethene, 1,2-dichloro-, (E)-	8010 8240	1 5
2,4-Dichlorophenol	00120-83-2	Phenol, 2,4-dichloro-	8040 8270	5 10
2,6-Dichlorophenol	00087-65-0	Phenol, 2,6-dichloro-	8270	10
1,2-Dichloropropane	00078-87-5	Propane, 1,2-dichloro-	8010 8240	0.5 5
cis-1,3-Dichloropropene	10061-01-5	1-Propene, 1,3-dichloro-, (Z)-	8010 8240	20 5
trans-1,3-Dichloropropene	10061-02-6	1-Propene, 1,3-dichloro-, (E)-	8010 8240	5 5
Dieldrin	00060-57-1	2,7:3,6-Dimethanonaphth[2,3-b]oxi- rene, 3,4,5,6,9-	8080 8270	0.05 10
Diethyl phthalate	00084-66-2	hexachloro-1a,2,2a,3,6,6a,-7, 7a-octahydro-, (1alpha, 2beta, 2alpha, 3beta, 6beta, 6alpha, 7beta, 7alpha)-	8060 8270	5 10
O,O-Diethyl O-2-pyrazinyl phosphoro- thioate; Thionazin	00297-97-2	1,2-Benzenedicarboxylic acid, diethyl ester .	8270	10
Dimethoate	00060-51-5	Phosphorothioic acid, O,O-diethyl O-pyrazi- nyl ester	8270	10
p-(Dimethylamino)azobenzene	00060-11-7	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester	8270	10
7,12-Dimethylbenz[a]anthracene ...	00057-97-6	Benzenamine, N,N-dimethyl-4-(phenylazo)-	8270	10
3,3'-Dimethylbenzidine	00119-93-7	Benz[a]anthracene, 7,12-dimethyl-	8270	10
alpha, alpha-Dimethylphen-ethylamine ...	00122-09-8	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dime- thyl-	8270	10
2,4-Dimethylphenol	00105-67-9	Benzeneethanamine, alpha,alpha-dimethyl-	8040 8270	5 10
Dimethyl phthalate	00131-11-3	Phenol, 2,4-dimethyl-	8060 8270	5 10
m-Dinitrobenzene	00099-65-0	1,2-Benzenedicarboxylic acid, dimethyl ester	8270	10
4,6-Dinitro-o-cresol	00534-52-1	Benzene, 1,3-dinitro-	8040 8270	150 50
2,4-Dinitrophenol	00051-28-5	Phenol, 2-methyl-4,6-dinitro-	8040 8270	150 50
2,4-Dinitrotoluene	00121-14-2	Phenol, 2,4-dinitro-	8090	0.2
8270	10	Benzene, 1-methyl-2,4-dinitro-		
2,6-Dinitrotoluene	00606-20-2	Benzene, 2-methyl-1,3-dinitro-	8090	0.1
8270	10			
Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophe- nol	00088-85-7	Phenol, 2-(1-methylpropyl)-4,6-dinitro- ...	8150 8270	1 10
Di-n-octyl phthalate	00117-84-0	1,2-Benzenedicarboxylic acid, dioctyl ester .	8060 8270	30 10
1,4-Dioxane	00123-91-1	1,4-Dioxane	8015	150
Diphenylamine	00122-39-4	Benzenamine, N-phenyl-	8270	10

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Disulfoton	00298-04-4	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl]ester	8140 8270	2 10
Endosulfan	00959-98-8	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10- hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide,(3alpha,5abeta,6alpha,9alpha,9abeta)	8080 8250	0.1 10
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,(3alpha,5aalpha,6beta,9beta,9aalpha)-	8080	0.05
Endosulfan sulfate	01031-07-8	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10- hexachloro-1,5,5a,6,9,9a-hexahydro-, 3,3-dioxide	8080 8270	0.5 10
Endrin	00072-20-8	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-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)-	8080 8270	0.05 10
Endrin aldehyde	07421-93-4	1,2,4-Methenocyclopenta[cd]pentalene-5-carboxaldehyde, 2,2a,3,3,4,7-hexachlorodecahydro-(1alpha,2beta,2abeta,4beta,4abeta,-5beta,6abeta,6bbeta,7R*)-	8080 8270	0.2 10
Ethylbenzen	00100-41-4	Benzene, ethyl-	8020 8240	2 5
Ethyl methacrylate	00097-63-2	2-Propenoic acid, 2-methyl-, ethyl ester ...	8015 8240 8270	10 5 10
Ethyl methanesulfonate	00062-50-0	Methanesulfonic acid, ethyl ester ...	8270	10
Famphur	00052-85-7	Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl]-O,O-dimethyl ester	8270	10
Fluoranthene	00206-44-0	Fluoranthene	8100 8270	200 10
Fluorene	00086-73-7	9H-Fluorene	8100 8270	200 10
Heptachlo	00076-44-8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	8080 8270	0.05 10
Heptachlorepoide	01024-57-3	2,5-Methano-2H-indeno[1,2-b]oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,-6,6a,-hexahydro-(1aalpha,1bbeta,2aalpha,5aalpha,5abeta,6beta,6aalpha)	8080 8270	1 10
Hexachlorobenzene	00118-74-1	Benzene, hexachloro-	8120 8270	0.5 10
Hexachlorobutadiene	00087-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	8120 8270	5 10
Hexachlorocyclopentadiene	00077-47-4	1,3-Cyclopentadiene, 1,2,3,4,5-hexachloro-	8120 8270	5 10
Hexachloroethane	00067-72-1	Ethane, hexachloro-	8120 8270	0.5 10
Hexachlorophene	00070-30-4	Phenol, 2,2'-methylenebis[3,4,6-trichloro-	8270	10
Hexachloropropene	01888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-	8270	10
2-Hexanone	00591-78-6	2-Hexanone	8240	50
Indeno(1,2,3-cd)pyrene	00193-39-5	Indeno[1,2,3-cd]pyrene	8100 8270	200 10
Isobutyl alcohol	00078-83-1	1-Propanol, 2-methyl-	8015	50

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Isodrin	00465-73-6	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a hexahydro-(1alpha,4alpha,4abeta,5beta,8beta-, 8abeta)-	8270	10
Isophorone	00078-59-1	2-Cyclohexen-1-one, 3,5,5-trimethyl-	8090 8270	60 10
Isosafrole	00120-58-1	1,3-Benzodioxole, 5-(1-propenyl)-	8270	10
Keponc	00143-50-0	1,3,4-Metheno-2H-cyclobuta-[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro-	8270	10
Lead	(Total)	Lead	6010 7420 7421	40 1,000 10
Mercury	(Total)	Mercury	7470	2
Methacrylonitrile	00126-98-7	2-Propenenitrile, 2-methyl-	8015 8240	5 5
Methapyrilene	00091-80-5	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-	8270	10
Methoxychlor	00072-43-5	Benzene, 1,1'-(2,2,2,2-trichloroethylidene)bis [4-methoxy-	8080 8270	2 10
Methyl bromide; Bromomethane	00074-83-9	Methane, bromo-	8010 8240	20 10
Methyl chloride; Chloromethane	00074-87-3	Methane, chloro-	8010 8240	1 10
3-Methylcholanthrene	00056-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-	8270	10
Methylene bromide; Dibromomethane	00074-95-3	Methane, dibromo-	8010 8240	15 5
Methylene chloride; Dichloromethane	00075-09-2	Methane, dichloro-	8010 8240	5 5
Methyl ethyl ketone; MEK	00078-93-3	2-Butanone	8015 8240	10 100
Methyl iodide; Iodomethane	00074-88-4	Methane, iodo-	8010 8240	40 5
Methyl methacrylate	00080-62-6	2-Propenoic acid, 2-methyl-, methyl ester	8015 8240	2 5
Methyl methanesulfonate	00066-27-3	Methanesulfonic acid, methyl ester	8270	10
2-Methylnaphthalene	00091-57-6	Naphthalene, 2-methyl-	8270	10
Methyl parathion; Parathion methyl	00298-00-0	Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester	8140 8270	0.5 10
4-Methyl-2-pentanone; Methyl isobutyl ketone	00108-10-1	2-Pentanone, 4-methyl-	8015 8240	5 50
Naphthalene	00091-20-3	Naphthalene	8100 8270	200 10
1,4-Naphthoquinone	00130-15-4	1,4-Naphthalenedione	8270	10
1-Naphthylamine	00134-32-7	1-Naphthalenamine	8270	10
2-Naphthylamine	00091-59-8	2-Naphthalenamine	8270	10
Nickel	(Total)	Nickel	6010 7520	50 400
o-Nitroaniline	00088-74-4	Benzenamine, 2-nitro-	8270	50
m-Nitroaniline	00099-09-2	Benzenamine, 3-nitro-	8270	50
p-Nitroaniline	00100-01-6	Benzenamine, 4-nitro-	8270	50
Nitrobenzene	00098-95-3	Benzene, nitro-	8090 8270	40 10
o-Nitrophenol	00088-75-5	Phenol, 2-nitro-	8040 8270	5 10
p-Nitrophenol	00100-02-7	Phenol, 4-nitro-	8040 8270	10 50

Common name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested methods ⁵	PQL (μ L) ⁶
4-Nitroquinoline 1-oxide	00056-57-5	Quinoline, 4-nitro-, 1-oxide	8270	10
N-Nitrosodi-n-butylamine	00924-16-3	1-Butanamine, N-butyl-N-nitroso-	8270	10
N-Nitrosodiethylamine	00055-18-5	Ethanamine, N-ethyl-N-nitroso-	8270	10
N-Nitrosodimethylamine	00062-75-9	Methanamine, N-methyl-N-nitroso-	8270	10
N-Nitrosodiphenylamine	00086-30-6	Benzenamine, N-nitroso-N-phenyl-	8270	10
N-Nitrosodipropylamine; Di-n-propylnitrosamine	00621-64-7	1-Propanamine, N-nitroso-N-propyl-	8270	10
N-Nitrosomethylethylamine	10595-95-6	Ethanamine, N-methyl-N-nitroso-	8270	10
N-Nitrosomorpholine	00059-89-2	Morpholine, 4-nitroso-	8270	10
N-Nitrosopiperidine	00100-75-4	Piperidine, 1-nitroso-	8270	10
N-Nitrosopyrrolidine	00930-55-2	Pyrrolidine, 1-nitroso-	8270	10
5-Nitro-o-toluidine	00099-55-8	Benzenamine, 2-methyl-5-nitro-	8270	10
Parathion	00056-38-2	Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester	8270	10
Polychlorinated biphenyls; PCBs	See Note 7	1,1'-Biphenyl, chloro derivatives	8080 8250	50 100
Polychlorinated dibenzo-p-dioxins; PCDDs	See Note 8	Dibenzo[b,e][1,4]dioxin, chloro derivatives	8280	0.01
Polychlorinated dibenzofurans; PCDFs	See Note 9	Dibenzofuran, chloro derivatives	8280	0.01
Pentachlorobenzene	00608-93-5	Benzene, pentachloro-	8270	10
Pentachloroethane	00076-01-7	Ethane, pentachloro-	8240 8270	5 10
Pentachloronitrobenzene	00082-68-8	Benzene, pentachloronitro-	8270	10
Pentachlorophenol	00087-86-5	Phenol, pentachloro-	8040 8270	5 50
Phenacetin	00062-44-2	Acetamide, N-(4-ethoxyphenyl)	8270	10
Phenanthrene	00085-01-8	Phenanthrene	8100 8270	200 10
Pheno	00108-95-2	Phenol	8040 8270	1 10
p-Phenylenediamine	00106-50-3	1,4-Benzenediamine	8270	10
Phorate	00298-02-2	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester	8140 8270	2 10
2-Picoline	00109-06-8	Pyridine, 2-methyl-	8240 8270	5 10
Pronamide	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-	8270	10
Propionitrile; Ethyl cyanide	00107-12-0	Propanenitrile	8015 8240	60 5
Pyrene	00129-00-0	Pyrene	8100 8270	200 10
Pyridine	00110-86-1	Pyridine	8240 8270	5 10
Safrole	00094-59-7	1,3-Benzodioxole, 5-(2-propenyl)-	8270	10
Selenium	(Total)	Selenium	6010 7740 7741	750 20 20
Silver	(Total)	Silver	6010 7760	70 100
Silvex; 2,4,5-TP	00093-72-1	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-	8150	2
Styrene	00100-42-5	Benzene, ethenyl-	8020 8240	1 5
Sulfide	18496-25-8	Sulfide	9030	10,000
2,4,5-T; 2,4,5-Trichloro-phenoxyacetic acid	00093-76-5	Acetic acid, (2,4,5-trichlorophenoxy)-	8150	2

Common name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested methods ⁵	PQL (µ/L) ⁶
2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodibenzo-p-dioxin	01746-01-6	Dibenzo[b,e][1,4]dioxin, 2,3,7,8-tetrachloro-	8280	0.005
1,2,4,5-Tetrachlorobenzene	00095-94-3	Benzene, 1,2,4,5-tetrachloro-	8270	10
1,1,1,2-Tetrachloroethane	00630-20-6	Ethane, 1,1,1,2-tetrachloro-	8010 8240	5 5
1,1,2,2-Tetrachloroethane	00079-34-5	Ethane, 1,1,2,2-tetrachloro-	8010 8240	0.5 5
Tetrachloroethylene; Perchloroethylene; ...	00127-18-4	Ethene, tetrachloro-	8010 8240	0.5 5
2,3,4,6-Tetrachlorophenol	00058-90-2	Phenol, 2,3,4,6-tetrachloro-	8270	10
Tetraethyl dithiopyrophosphate; Sulfotep ..	03689-24-5	Thiodiphosphoric acid ((HO)2P(S))2O, tetraethyl ester	8270	10
Thallium	(Total)	Thallium	6010 7840 7841	400 1,000 10
Tin	(Total)	Tin	7870	8,000
Toluene	00108-88-3	Benzene, methyl-	8020 8240	2 5
o-Toluidine	00095-53-4	Benzenamine, 2-methyl-	8270	10
Toxaphene	08001-35-2	Toxaphene	8080 8250	2 10
1,2,4-Trichlorobenzene	00120-82-1	Benzene, 1,2,4-trichloro-	8270	10
1,1,1-Trichloroethane; Methylchloroform ...	00071-55-6	Ethane, 1,1,1-trichloro-	8240	5
1,1,2-Trichloroethane	00079-00-5	Ethane, 1,1,2-trichloro-	8010 8240	0.2 5
Trichloroethylene; Trichloroethene ..	00079-01-6	Ethene, trichloro-	8010 8240	1 5
Trichlorofluoromethane	00075-69-4	Methane, trichlorofluoro-	8010 8240	10 5
2,4,5-Trichlorophenol	00095-95-4	Phenol, 2,4,5-trichloro-	8270	10
2,4,6-Trichlorophenol	00088-06-2	Phenol, 2,4,6-trichloro-	8040 8270	5 10
1,2,3-Trichloropropane	00096-18-4	Propane, 1,2,3-trichloro-	8010 8240	10 5
O,O,O-Triethyl phosphorothioate ...	00126-68-1	Phosphorothioic acid, O,O,O-triethyl ester ...	8270	10
sym-Trinitrobenzene	00099-35-4	Benzene, 1,3,5-trinitro-	8270	10
Vanadium	(Total)	Vanadium	6010 7910 7911	80 2,000 40
Vinyl acetate	00108-05-4	Acetic acid, ethenyl ester	8240	5
Vinyl chloride	00075-01-4	Ethene, chloro-	8010 8240	2 10
Xylene (total)	01330-20-7	Benzene, dimethyl-	8020 8240	5 5
Zinc	(Total)	Zinc	6010 7950	20 50

¹The regulatory requirements pertain only to the list of substances; the right hand columns (Methods and PQL) are given for informational purposes only. See also footnotes 5 and 6.

²Common names are those widely used in government regulations, scientific publications and commerce; synonyms exist for many chemicals.

³Chemical Abstracts Service registry number. Where "Total" is entered, all species in the groundwater that contain this element are included.

⁴CAS index names are those used in the 9th Cumulative Index.

⁵Suggested Methods refer to analytical procedure numbers used in EPA Publication SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", as incorporated by reference in s. NR 600.10 (2) (b) 1. and (c). Analytical details can be found in SW-846 and in documentation on file with EPA. The packed gas column gas chromatography methods 8010, 8020, 8030, 8040, 8060, 8080, 8090, 8110, 8120, 8140, 8150, 8240 and 8250 were promulgated through Update IIB of SW-846 and, as of Update III, EPA has replaced these methods with "capillary column GC methods," as the suggested methods.

⁶Practical Quantitation Limits (PQLs) are the lowest concentrations of analytes in groundwaters that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. The PQLs listed are generally stated to one significant figure. CAUTION: The PQL values in many cases are based only on a general estimate for the method and not on a determination for individual compounds; PQLs are not a part of the regulation.

⁷Polychlorinated biphenyls (CAS RN 01336-36-3); 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). The PQL shown is an average value for PCB congeners.

⁸This category contains congener chemicals, including tetrachlorodibenzo-p-dioxins (see also 2,3,7,8-TCDD), pentachlorodibenzo-p-dioxins and hexachlorodibenzo-p-dioxins. The PQL shown is an average value for PCDD congeners.

⁹This category contains congener chemicals, including tetrachlorodibenzofurans, pentachlorodibenzofurans and hexachlorodibenzofurans. The PQL shown is an average value for PCDF congeners.

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