

NC Solid Waste Section Environmental Monitoring

Groundwater Protection Compliance Standards - Constituents List

(updated April 11, 2022)

All units are ug/L unless otherwise noted.

NE = Not Established

CAS RN ²	SWS ID ³	CHEMICAL NAME	Groundwater Protection Standards ¹				Reference List ⁴
			<u>2L</u>	<u>2L IMAC</u>	<u>MCL</u>	DEQ Calculated GWP Std	
67-64-1	3	Acetone	6000	NE	NE	NE	Appendix I
107-13-1	8	Acrylonitrile	NE	NE	NE	NE	Appendix I
7440-36-0	13	Antimony	1	NE	6	NE	Appendix I
7440-38-2	14	Arsenic	10	NE	10	NE	Appendix I
7440-39-3	15	Barium	700	NE	2000	NE	Appendix I
71-43-2	16	Benzene	1	NE	5	NE	Appendix I
7440-41-7	23	Beryllium	4	NE	4	NE	Appendix I
74-97-5	28	Bromochloromethane; Chlorobromomethane	NE	NE	NE	0.6	Appendix I
75-27-4	29	Bromodichloromethane; Dibromochloromethane	0.6	NE	80	NE	Appendix I
75-25-2	30	Bromoform; Tribromomethane	4	NE	80	NE	Appendix I
7440-43-9	34	Cadmium	2	NE	5	NE	Appendix I
75-15-0	35	Carbon disulfide	700	NE	NE	NE	Appendix I
56-23-5	36	Carbon tetrachloride	0.3	NE	5	NE	Appendix I
108-90-7	39	Chlorobenzene	50	NE	100	NE	Appendix I
75-00-3	41	Chloroethane; Ethyl chloride	3000	NE	NE	NE	Appendix I
67-66-3	44	Chloroform; Trichloromethane	70	NE	80	NE	Appendix I
7440-47-3	51	Chromium	10	NE	100	NE	Appendix I
7440-48-4	53	Cobalt	1	NE	NE	NE	Appendix I
7440-50-8	54	Copper	1000	NE	1300	NE	Appendix I
124-48-1	66	Dibromochloromethane; Chlorodibromomethane	0.4	NE	80	NE	Appendix I
96-12-8	67	1,2-Dibromo-3-chloropropane; DBCP	0.04	NE	0.2	NE	Appendix I
106-93-4	68	1,2-Dibromoethane; Ethylene dibromide; EDB	0.02	NE	0.05	NE	Appendix I
95-50-1	69	o-Dichlorobenzene; 1,2-Dichlorobenzene	20	NE	600	NE	Appendix I
106-46-7	71	p-Dichlorobenzene; 1,4-Dichlorobenzene	6	NE	75	NE	Appendix I
110-57-6	73	trans-1,4-Dichloro-2-butene	NE	NE	NE	NE	Appendix I
75-34-3	75	1,1-Dichloroethane; Ethylidene chloride	6	NE	NE	NE	Appendix I
107-06-2	76	1,2-Dichloroethane; Ethylene dichloride	0.4	NE	5	NE	Appendix I
75-35-4	77	1,1-Dichloroethylene; 1,1-Dichloroethene;	350	NE	7	NE	Appendix I

			Groundwater Protection Standards ¹				
CAS RN ²	SWS ID ³	CHEMICAL NAME	2L	2L IMAC	MCL	DEQ Calculated GWP Std	Reference List ⁴
156-59-2	78	Vinylidene chloride cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene	70	NE	70	NE	Appendix I
156-60-5	79	trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene	100	NE	100	NE	Appendix I
78-87-5	82	1,2-Dichloropropane	0.6	NE	5	NE	Appendix I
10061-01-5	86	cis-1,3-Dichloropropene	0.4	NE	NE	NE	Appendix I
10061-02-6	87	trans-1,3-Dichloropropene	0.4	NE	NE	NE	Appendix I
100-41-4	110	Ethylbenzene	600	NE	700	NE	Appendix I
591-78-6	124	2-Hexanone; Methyl butyl ketone	40	NE	NE	NE	Appendix I
7439-92-1	131	Lead	15	NE	15	NE	Appendix I
74-83-9	136	Methyl bromide; Bromomethane	10	NE	NE	NE	Appendix I
74-87-3	137	Methyl chloride; Chloromethane	3	NE	NE	NE	Appendix I
74-95-3	139	Methylene bromide; Dibromomethane	NE	70	NE	NE	Appendix I
75-09-2	140	Methylene chloride; Dichloromethane	5	NE	5	NE	Appendix I
78-93-3	141	Methyl ethyl ketone; MEK; 2-Butanone	4000	NE	NE	NE	Appendix I
74-88-4	142	Methyl iodide; Iodomethane	NE	NE	NE	NE	Appendix I
108-10-1	147	4-Methyl-2-pentanone; Methyl isobutyl ketone	100	NE	NE	NE	Appendix I
7440-02-0	152	Nickel	100	NE	NE	NE	Appendix I
7782-49-2	183	Selenium	20	NE	50	NE	Appendix I
7440-22-4	184	Silver	20	NE	NE	NE	Appendix I
100-42-5	186	Styrene	70	NE	100	NE	Appendix I
630-20-6	190	1,1,1,2-Tetrachloroethane	1	NE	NE	NE	Appendix I
79-34-5	191	1,1,2,2-Tetrachloroethane	0.2	NE	NE	NE	Appendix I
127-18-4	192	Tetrachloroethylene; Tetrachloroethene; Perchloroethylene	0.7	NE	5	NE	Appendix I
7440-28-0	194	Thallium	2	NE	2	NE	Appendix I
108-88-3	196	Toluene	600	NE	1000	NE	Appendix I
71-55-6	200	1,1,1-Trichloroethane; Methylchloroform	200	NE	200	NE	Appendix I
79-01-6	201	Trichloroethylene; Trichloroethene	3	NE	5	NE	Appendix I
79-00-5	202	1,1,2-Trichloroethane	0.6	NE	5	NE	Appendix I
75-69-4	203	Trichlorofluoromethane; CFC-11	2000	NE	NE	NE	Appendix I
96-18-4	206	1,2,3-Trichloropropane	0.005	NE	NE	NE	Appendix I
7440-62-2	209	Vanadium	7	NE	NE	NE	Appendix I
108-05-4	210	Vinyl acetate	NE	88	NE	NE	Appendix I
75-01-4	211	Vinyl chloride; Chloroethene	0.03	NE	2	NE	Appendix I

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7440-66-6	213	Zinc	1000	NE	NE	NE	Appendix I
1330-20-7	346	Xylene (total)	500	NE	10000	NE	Appendix I
83-32-9	1	Acenaphthene	80	NE	NE	NE	Appendix II
208-96-8	2	Acenaphthylene	200	NE	NE	NE	Appendix II
75-05-8	4	Acetonitrile; Methyl cyanide	NE	NE	NE	NE	Appendix II
98-86-2	5	Acetophenone	700	NE	NE	NE	Appendix II
53-96-3	6	2-Acetylaminofluorene; 2-AAF	NE	NE	NE	NE	Appendix II
107-02-8	7	Acrolein	4	NE	NE	NE	Appendix II
309-00-2	9	Aldrin	0.002	NE	NE	NE	Appendix II
107-05-1	10	Allyl chloride	NE	NE	NE	NE	Appendix II
92-67-1	11	4-Aminobiphenyl	NE	NE	NE	NE	Appendix II
120-12-7	12	Anthracene	2000	NE	NE	NE	Appendix II
56-55-3	17	Benzo[a]anthracene; Benzanthracene	0.05	NE	NE	NE	Appendix II
205-99-2	18	Benzo[b]fluoranthene	0.05	NE	NE	NE	Appendix II
207-08-9	19	Benzo[k]fluoranthene	0.5	NE	NE	NE	Appendix II
191-24-2	20	Benzo[ghi]perylene	200	NE	NE	NE	Appendix II
50-32-8	21	Benzo[a]pyrene	0.005	NE	0.2	NE	Appendix II
100-51-6	22	Benzyl alcohol	700	NE	NE	NE	Appendix II
319-84-6	24	alpha-BHC	NE	0.006	NE	NE	Appendix II
319-85-7	25	beta-BHC	NE	0.02	NE	NE	Appendix II
319-86-8	26	delta-BHC	NE	NE	NE	0.019	Appendix II
58-89-9	27	gamma-BHC; Lindane	0.03	NE	0.2	NE	Appendix II
101-55-3	31	4-Bromophenyl phenyl ether	NE	NE	NE	NE	Appendix II
85-68-7	32	Butyl benzyl phthalate; Benzyl butyl phthalate	1000	NE	NE	NE	Appendix II
84-74-2	33	Di-n-butyl phthalate	700	NE	NE	NE	Appendix II
106-47-8	38	p-Chloroaniline	NE	NE	NE	NE	Appendix II
510-15-6	40	Chlorobenzilate	NE	NE	NE	NE	Appendix II
111-91-1	42	Bis(2-chloroethoxy)methane	NE	NE	NE	NE	Appendix II
111-44-4	43	Bis(2-chloroethyl)ether; Dichloroethyl ether	NE	NE	NE	0.031	Appendix II
59-50-7	45	p-Chloro-m-cresol; 4-Chloro-3-methylphenol	NE	NE	NE	NE	Appendix II
108-60-1	46	Bis(2-chloro-1-methylethyl) ether; 2,2'-Dichlorodiisopropyl ether; DCIP	NE	NE	NE	NE	Appendix II
91-58-7	47	2-Chloronaphthalene	NE	NE	NE	NE	Appendix II

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95-57-8	48	2-Chlorophenol	0.4	NE	NE	NE	Appendix II
7005-72-3	49	4-Chlorophenyl phenyl ether	NE	NE	NE	NE	Appendix II
126-99-8	50	Chloroprene	NE	NE	NE	NE	Appendix II
218-01-9	52	Chrysene	5	NE	NE	NE	Appendix II
95-48-7	56	o-Cresol; 2-Methylphenol	400	NE	NE	NE	Appendix II
57-12-5	58	Cyanide	70	NE	200	NE	Appendix II
94-75-7	59	2,4-D; 2,4-Dichlorophenoxyacetic acid	70	NE	70	NE	Appendix II
72-54-8	60	4,4'-DDD	0.1	NE	NE	NE	Appendix II
72-55-9	61	4,4'-DDE	NE	NE	NE	NE	Appendix II
50-29-3	62	4,4'-DDT	0.1	NE	NE	NE	Appendix II
2303-16-4	63	Diallate	NE	NE	NE	NE	Appendix II
53-70-3	64	Dibenz[a,h]anthracene	0.005	NE	NE	NE	Appendix II
132-64-9	65	Dibenzofuran	28	NE	NE	NE	Appendix II
541-73-1	70	m-Dichlorobenzene; 1,3-Dichlorobenzene	200	NE	NE	NE	Appendix II
91-94-1	72	3,3'-Dichlorobenzidine	NE	NE	NE	NE	Appendix II
75-71-8	74	Dichlorodifluoromethane; CFC 12	1000	NE	NE	NE	Appendix II
120-83-2	80	2,4-Dichlorophenol	0.98	NE	NE	NE	Appendix II
87-65-0	81	2,6-Dichlorophenol	NE	NE	NE	NE	Appendix II
142-28-9	83	1,3-Dichloropropane; Trimethylene dichloride	NE	NE	NE	NE	Appendix II
594-20-7	84	2,2-Dichloropropane; Isopropylidene chloride	NE	NE	NE	NE	Appendix II
563-58-6	85	1,1-Dichloropropene	NE	NE	NE	NE	Appendix II
60-57-1	88	Dieldrin	0.002	NE	NE	NE	Appendix II
297-97-2	89	O,O-Diethyl O-2-pyrazinyl phosphorothioate; Thionazin	NE	NE	NE	NE	Appendix II
84-66-2	90	Diethyl phthalate	6000	NE	NE	NE	Appendix II
60-51-5	91	Dimethoate	NE	NE	NE	NE	Appendix II
60-11-7	92	p-(Dimethylamino)azobenzene	NE	NE	NE	NE	Appendix II
57-97-6	93	7,12-Dimethylbenz[a]anthracene	NE	NE	NE	NE	Appendix II
119-93-7	94	3,3'-Dimethylbenzidine	NE	NE	NE	NE	Appendix II
105-67-9	95	2,4-Dimethylphenol; m-Xylenol	100	NE	NE	NE	Appendix II
131-11-3	96	Dimethyl phthalate	NE	NE	NE	NE	Appendix II
99-65-0	97	m-Dinitrobenzene	NE	NE	NE	NE	Appendix II
534-52-1	98	4,6-Dinitro-o-cresol; 4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	Appendix II

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51-28-5	99	2,4-Dinitrophenol	NE	NE	NE	NE	Appendix II
121-14-2	100	2,4-Dinitrotoluene	0.05	NE	NE	NE	Appendix II
606-20-2	101	2,6-Dinitrotoluene	NE	NE	NE	NE	Appendix II
88-85-7	102	Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophenol	7	NE	7	NE	Appendix II
122-39-4	103	Diphenylamine	NE	NE	NE	NE	Appendix II
298-04-4	104	Disulfoton	0.3	NE	NE	NE	Appendix II
959-98-8	105	Endosulfan I	40	NE	NE	NE	Appendix II
33213-65-9	106	Endosulfan II	NE	NE	NE	42	Appendix II
1031-07-8	107	Endosulfan sulfate	40	NE	NE	NE	Appendix II
72-20-8	108	Endrin	2	NE	2	NE	Appendix II
7421-93-4	109	Endrin aldehyde	2	NE	NE	NE	Appendix II
117-81-7	111	Bis(2-ethylhexyl) phthalate	3	NE	NE	NE	Appendix II
97-63-2	112	Ethyl methacrylate	NE	NE	NE	NE	Appendix II
62-50-0	113	Ethyl methanesulfonate	NE	NE	NE	NE	Appendix II
52-85-7	114	Famphur	NE	NE	NE	NE	Appendix II
206-44-0	115	Fluoranthene	300	NE	NE	NE	Appendix II
86-73-7	116	Fluorene	300	NE	NE	NE	Appendix II
76-44-8	117	Heptachlor	0.008	NE	0.4	NE	Appendix II
1024-57-3	118	Heptachlor epoxide	0.004	NE	0.2	NE	Appendix II
118-74-1	119	Hexachlorobenzene	0.02	NE	1	NE	Appendix II
87-68-3	120	Hexachlorobutadiene	0.4	NE	NE	NE	Appendix II
77-47-4	121	Hexachlorocyclopentadiene	NE	NE	50	50	Appendix II
67-72-1	122	Hexachloroethane	NE	NE	NE	2.5	Appendix II
1888-71-7	123	Hexachloropropene	NE	NE	NE	NE	Appendix II
193-39-5	125	Indeno(1,2,3-cd)pyrene	0.05	NE	NE	NE	Appendix II
78-83-1	126	Isobutyl alcohol	NE	NE	NE	NE	Appendix II
465-73-6	127	Isodrin	NE	NE	NE	NE	Appendix II
78-59-1	128	Isophorone	40	NE	NE	NE	Appendix II
120-58-1	129	Isosafrole	NE	NE	NE	NE	Appendix II
143-50-0	130	Kepone	NE	NE	NE	NE	Appendix II
7439-97-6	132	Mercury	1	NE	2	NE	App. II / C&D
126-98-7	133	Methacrylonitrile	NE	NE	NE	NE	Appendix II

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CAS RN ²	SWS ID ³	CHEMICAL NAME	2L	2L IMAC	MCL	DEQ Calculated GWP Std	Reference List ⁴
91-80-5	134	Methapyrilene	NE	NE	NE	NE	Appendix II
72-43-5	135	Methoxychlor	40	NE	NE	NE	Appendix II
56-49-5	138	3-Methylcholanthrene	NE	NE	NE	NE	Appendix II
80-62-6	143	Methyl methacrylate	25	NE	NE	NE	Appendix II
66-27-3	144	Methyl methanesulfonate	NE	NE	NE	NE	Appendix II
91-57-6	145	2-Methylnaphthalene	30	NE	NE	NE	Appendix II
298-00-0	146	Methyl parathion; Parathion methyl	NE	NE	NE	NE	Appendix II
91-20-3	148	Naphthalene	6	NE	NE	NE	Appendix II
130-15-4	149	1,4-Naphthoquinone	NE	NE	NE	NE	Appendix II
134-32-7	150	1-Naphthylamine	NE	NE	NE	NE	Appendix II
91-59-8	151	2-Naphthylamine	NE	NE	NE	NE	Appendix II
99-09-2	153	m-Nitroaniline; 3-Nitroaniline	NE	NE	NE	NE	Appendix II
88-74-4	154	o-Nitroaniline; 2-Nitroaniline	NE	NE	NE	NE	Appendix II
100-01-6	155	p-Nitroaniline; 4-Nitroaniline	NE	NE	NE	NE	Appendix II
98-95-3	156	Nitrobenzene	NE	NE	NE	NE	Appendix II
99-55-8	157	5-Nitro-o-toluidine	NE	NE	NE	NE	Appendix II
88-75-5	158	o-Nitrophenol; 2-Nitrophenol	NE	NE	NE	NE	Appendix II
100-02-7	159	p-Nitrophenol; 4-Nitrophenol	NE	NE	NE	NE	Appendix II
55-18-5	160	N-Nitrosodiethylamine	NE	NE	NE	NE	Appendix II
62-75-9	161	N-Nitrosodimethylamine	0.0007	NE	NE	NE	Appendix II
924-16-3	162	N-Nitrosodi-n-butylamine	NE	NE	NE	NE	Appendix II
86-30-6	163	N-Nitrosodiphenylamine	NE	NE	NE	NE	Appendix II
621-64-7	164	N-Nitrosodipropylamine; N-Nitroso-N-dipropylamine; Di-n-propyl nitrosamine	NE	NE	NE	NE	Appendix II
10595-95-6	165	N-Nitrosomethylethylamine	NE	NE	NE	NE	Appendix II
100-75-4	166	N-Nitrosopiperidine	NE	NE	NE	NE	Appendix II
930-55-2	167	N-Nitrosopyrrolidine	NE	NE	NE	NE	Appendix II
117-84-0	168	Di-n-octyl phthalate	100	NE	NE	NE	Appendix II
56-38-2	169	Parathion	NE	NE	NE	NE	Appendix II
1336-36-3	170	Polychlorinated biphenyls; PCBs	NE	0.09	0.5	NE	Appendix II
608-93-5	171	Pentachlorobenzene	NE	NE	NE	NE	Appendix II
82-68-8	172	Pentachloronitrobenzene	NE	NE	NE	NE	Appendix II
87-86-5	173	Pentachlorophenol	0.3	NE	1	NE	Appendix II

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62-44-2	174	Phenacetin	NE	NE	NE	NE	Appendix II
85-01-8	175	Phenanthrene	200	NE	NE	NE	Appendix II
106-50-3	176	p-Phenylenediamine	NE	NE	NE	NE	Appendix II
108-95-2	177	Phenol	30	NE	NE	NE	Appendix II
298-02-2	178	Phorate	1	NE	NE	NE	Appendix II
23950-58-5	179	Pronamide	NE	NE	NE	NE	Appendix II
107-12-0	180	Propionitrile; Ethyl cyanide	NE	NE	NE	NE	Appendix II
129-00-0	181	Pyrene	200	NE	NE	NE	Appendix II
94-59-7	182	Safrole	NE	NE	NE	NE	Appendix II
93-72-1	185	Silvex; 2,4,5-TP	50	NE	NE	NE	Appendix II
18496-25-8	187	Sulfide	NE	NE	NE	NE	Appendix II
93-76-5	188	2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid	NE	NE	NE	NE	Appendix II
95-94-3	189	1,2,4,5-Tetrachlorobenzene	2	NE	NE	NE	Appendix II
58-90-2	193	2,3,4,6-Tetrachlorophenol	200	NE	NE	NE	Appendix II
7440-31-5	195	Tin	2000	NE	NE	NE	Appendix II
95-53-4	197	o-Toluidine	NE	NE	NE	NE	Appendix II
8001-35-2	198	Toxaphene	0.03	NE	3	NE	Appendix II
120-82-1	199	1,2,4-Trichlorobenzene	70	NE	70	NE	Appendix II
95-95-4	204	2,4,5-Trichlorophenol	63	NE	NE	NE	Appendix II
88-06-2	205	2,4,6-Trichlorophenol	4	NE	NE	NE	Appendix II
126-68-1	207	O,O,O-Triethyl phosphorothioate	NE	NE	NE	NE	Appendix II
99-35-4	208	sym-Trinitrobenzene	NE	NE	NE	NE	Appendix II
57-74-9	339	Chlordane	0.1	NE	NE	NE	Appendix II
106-44-5	344	p-Cresol; 4-Methylphenol	40	NE	NE	NE	Appendix II
108-39-4	345	m-Cresol; 3-Methylphenol	400	NE	NE	NE	Appendix II
122-09-8	386	Benzeneethanamine, alpha,alpha-dimethyl	NE	NE	NE	NE	Appendix II
1746-01-6	440	2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodibenzo- p-dioxin	0.0002 ng/L	NE	0.03	NE	Appendix II
123-91-1	422	1,4-dioxane	3	NE	NE	NE	ALL ⁵
SW301	301	Chloride	250000	NE	NE	NE	C&D
SW311	311	Total Dissolved Solids	500000	NE	NE	NE	C&D
14808-79-8	315	Sulfate	250000	NE	NE	NE	C&D / Leachate
SW337	337	Alkalinity	NE	NE	NE	NE	C&D

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7439-89-6	340	Iron	300	NE	NE	NE	C&D
7439-96-5	342	Manganese	50	NE	NE	NE	C&D
109-99-9	441	Tetrahydrofuran	NE	2000	NE	NE	C&D
SW316	316	Biological Oxygen Demand	NE	NE	NE	NE	Leachate
SW317	317	Chemical Oxygen Demand	NE	NE	NE	NE	Leachate
SW419	419	No2/No3 (nitrate & nitrite reported together)	NE	NE	NE	NE	Leachate
SW437	437	Orthophosphate Phosphorus	NE	NE	NE	NE	Leachate
SW321	321	pH (lab)	7.0	NE	NE	NE	Leachate
SW324	324	SpecCond (lab)	NE	NE	NE	NE	Leachate
226-36-8	385	1,2,5,6-Dibenzacridine	NE	NE	NE	NE	Other
122-66-7	394	1,2-Diphenylhydrazine	NE	NE	NE	NE	Other
87-61-6	371	1-2-3-Trichlorobenzene	NE	NE	NE	NE	Other
120-36-5	352	2-(2-4-dichlorophenoxy)propionic acid	NE	NE	NE	NE	Other
94-82-6	350	2-4 DB	NE	NE	NE	NE	Other
110-75-8	358	2-Chloroethylvinyl ether	NE	NE	NE	NE	Other
109-06-8	390	2-Picoline	NE	NE	NE	NE	Other
56-57-5	388	4-nitroquinoline-1-oxide	NE	NE	NE	NE	Other
64-19-7	416	Acetic Acid	5000	NE	NE	NE	Other
62-53-3	381	Aniline	NE	NE	NE	NE	Other
140-57-8	382	Aramite	NE	NE	NE	NE	Other
12674-11-2	401	Aroclor 1016	NE	NE	NE	NE	Other
11104-28-2	402	Aroclor 1221	NE	NE	NE	NE	Other
11141-16-5	403	Aroclor 1232	NE	NE	NE	NE	Other
53469-21-9	404	Aroclor 1242	NE	NE	NE	NE	Other
12672-29-6	405	Aroclor 1248	NE	NE	NE	NE	Other
11097-69-1	406	Aroclor 1254	NE	NE	NE	NE	Other
11096-82-5	407	Aroclor 1260	NE	NE	NE	NE	Other
92-87-5	383	Benzidine	NE	NE	NE	NE	Other
7440-42-8	428	Boron	700	NE	NE	NE	Other
SW347	347	Bicarbonate (as CaCO3)	NE	NE	NE	NE	Other
101-84-8	423	biphenyl ether	NE	NE	NE	NE	Other
108-86-1	360	Bromobenzene	NE	NE	NE	NE	Other

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SW418	418	Butyric Acid	NE	NE	NE	NE	Other
7440-70-2	375	Calcium	NE	NE	NE	NE	Other
SW413	413	Carbon Dioxide (CO2)	NE	NE	NE	NE	Other
SW348	348	Carbonate (as CaCO3)	NE	NE	NE	NE	Other
12789-03-6	400	Chlordane (constituents)	NE	NE	NE	NE	Other
79-06-1	429	Acrylamide	0.008	NE	NE	NE	Other
5103-71-9	379	Chlordane, alpha	NE	NE	NE	NE	Other
5103-74-2	378	Chlordane, beta	NE	NE	2	NE	Other
5566-34-7	399	Chlordane, gamma	NE	NE	NE	NE	Other
75-99-0	355	Dalapon	200	NE	200	NE	Other
SW318	318	Depth To Water (ft)	NE	NE	NE	NE	Other
1918-00-9	353	Dicamba	NE	NE	NE	NE	Other
SW334	334	Ferrous Iron- Dissolved	NE	NE	NE	NE	Other
SW427	427	Groundwater Elevation (feet)	NE	NE	NE	NE	Other
SW319	319	Head (ft mean sea level)	NE	NE	NE	NE	Other
70-30-4	387	Hexachlorophene	NE	NE	NE	NE	Other
SW338	338	Hydrogen Sulfide	NE	NE	NE	NE	Other
SW415	415	Lactic Acid	NE	NE	NE	NE	Other
SW329	329	Landfill Gas	NE	NE	NE	NE	Other
SW374	374	m-&p-Cresol (combined)	NE	NE	NE	NE	Other
92-52-4	421	1,1-biphenyl	400	NE	NE	NE	Other
SW359	359	m-&p-Xylene (combined)	NE	NE	NE	NE	Other
1563-66-2	430	Carbofuran	40	NE	40	NE	Other
107-21-1	424	ethylene glycol	10000	NE	NE	NE	Other
142-82-5	432	Heptane	400	NE	NE	NE	Other
7439-95-4	376	Magnesium	NE	NE	NE	NE	Other
94-74-6	351	MCPA	NE	NE	NE	NE	Other
76-13-1	398	1,1,2-Trichlorotrifluoroethane	200000	NE	NE	NE	Other
93-65-2	354	Mecopop, MCPP	NE	NE	NE	NE	Other
SW333	333	Methane- Dissolved	NE	NE	NE	NE	Other
7439-98-7	397	Molybdenum	NE	NE	NE	NE	Other
108-38-3	409	m-Xylene	NE	NE	NE	NE	Other

			Groundwater Protection Standards ¹				
CAS RN ²	SWS ID ³	CHEMICAL NAME	<u>2L</u>	<u>2L IMAC</u>	<u>MCL</u>	DEQ Calculated GWP Std	Reference List ⁴
SW426	426	N-nitrosodiphenylamine/diphenylamine	NE	NE	NE	NE	Other
SW439	439	N-Nitrosodiphenylamine/Diphenylamine	NE	NE	NE	NE	Other
65-85-0	395	Benzoic Acid	30000	NE	NE	NE	Other
39638-32-9	384	Bis(2-chloroisopropyl) ether	0.03	NE	NE	NE	Other
59-89-2	389	N-Nitrosomorpholine	NE	NE	NE	NE	Other
SW309	309	Coliform (total)	1	NE	5	NE	Other
SW310	310	Color (color units)	15	NE	NE	NE	Other
SW336	336	Oxygen Reduction Potential (mV)	NE	NE	NE	NE	Other
SW313	313	Foaming Agents	500	NE	NE	NE	Other
SW314	314	Gross Alpha	15	NE	NE	NE	Other
106-43-4	365	4-Chlorotoluene	24	NE	NE	NE	Other
99-87-6	368	p-Cymene	25	NE	NE	NE	Other
108-20-3	366	Isopropyl ether	70	NE	NE	NE	Other
98-82-8	367	Isopropylbenzene	70	NE	NE	NE	Other
76-01-7	380	Pentachloroethane	NE	NE	NE	NE	Other
SW335	335	Manganese- Dissolved	50	NE	NE	NE	Other
108-67-8	373	Mesitylene (1-3-5-trimethylbenzene)	400	NE	NE	NE	Other
7440-09-7	377	Potassium	NE	NE	NE	NE	Other
1634-04-4	369	Methyl-tert-butyl ether (MTBE)	20	NE	NE	NE	Other
104-51-8	361	n-Butylbenzene	70	NE	NE	NE	Other
SW417	417	Propionic Acid	NE	NE	NE	NE	Other
106-42-3	410	p-Xylene	NE	NE	NE	NE	Other
103-65-1	370	n-Propylbenzene	70	NE	NE	NE	Other
95-49-8	364	o-Chlorotoluene	100	NE	NE	NE	Other
110-86-1	391	Pyridine	NE	NE	NE	7	Other
SW414	414	Pyruvic Acid	NE	NE	NE	NE	Other
7440-23-5	322	Sodium	NE	NE	NE	20000	Other
SW323	323	SpecCond (field)	NE	NE	NE	NE	Other
SW307	307	petroleum aliphatic carbon fraction class C19 - C36	10000	NE	NE	NE	Other
SW305	305	petroleum aliphatic carbon fraction class C5 - C8	400	NE	NE	NE	Other
SW306	306	petroleum aliphatic carbon fraction class C9 - C18	700	NE	NE	NE	Other
SW308	308	petroleum aromatics carbon fraction class C9 - C22	200	NE	NE	NE	Other

			Groundwater Protection Standards ¹				
CAS RN ²	SWS ID ³	CHEMICAL NAME	2L	2L IMAC	MCL	DEQ Calculated GWP Std	Reference List ⁴
SW320	320	pH (field)	7.0	NE	NE	NE	Other
95-63-6	372	Pseudocumene (1-2-4-trimethylbenzene)	400	NE	NE	NE	Other
3689-24-5	392	Sulfotep	NE	NE	NE	NE	Other
SW325	325	Temp (oC)	NE	NE	NE	NE	Other
135-98-8	362	sec-Butylbenzene	70	NE	NE	NE	Other
SW328	328	Top Of Casing (ft mean sea level)	NE	NE	NE	NE	Other
SW425	425	Total BHC	0.02	NE	NE	NE	Other
SW436	436	Total Fatty Acids	NE	NE	NE	NE	Other
E-10195	357	Total Organic Carbon	NE	NE	NE	NE	Other
98-06-6	363	tert-Butylbenzene	70	NE	NE	NE	Other
SW396	396	Total Organic Halides	NE	NE	NE	NE	Other
SW343	343	Total Suspended Solids	NE	NE	NE	NE	Other
SW411	411	Total Well Depth (ft)	NE	NE	NE	NE	Other
SW330	330	Turbidity	NE	NE	NE	NE	Other

NOTE: GWPSs as listed are current as of April 11, 2022 and are subject to change. Refer to originating sources for any changes.

¹ **Groundwater Protection Standard (GWPS)** - For compliance purposes, the applicable GWPS is the lower of the listed standards.

² **CAS RN** = Chemical Abstract Service Registry Number. For listed constituents with no CAS, the SWS ID is used.

³ **SWS ID** = Solid Waste Section ID. Unique ID assigned by the Section.

⁴ **Constituents Reference Lists**

APPENDIX I - Constituents for Detection Monitoring per **40 CFR Part 258 (7-1-2017 Edition)**

APPENDIX II - List of Hazardous Inorganic & Organic Constituents per **40 CFR Part 258 (7-1-2017 Edition)**. Appendix II list includes all Appendix I constituents.

C&D - Additional monitored constituents required for Construction & Demolition landfills (CDLFs)

LEACHATE - Monitored constituents for leachate sampling as specified in permit conditions.

Other - Other constituents, field testing, field measurements, or miscellaneous data that may be required by the Section.

⁵ **ALL** - 1,4-Dioxane sampling required for all MSW, C&D, & Industrial landfills (active and closed) per SWS Memo dated May 29, 2018.

GW Protection Standards References

2L - NC groundwater water standards per 15A NCAC 02L .0202

2L IMAC (Interim Maximum Allowable Concentrations) - Interim NC groundwater standards per 15A NCAC 02L .0202

MCL (Maximum Contaminant Level) - National primary drinking water standards per Safe Drinking Water Act under 40 CFR Part 141

NC GWP Std (NC Groundwater Protected Standard) - Groundwater value calculated by NC DEQ for constituents with no established 2L standard. Values are calculated using criteria 1 & 2 of the NC Groundwater standards and do not consider taste, odor, MCLs, MCLG, and secondary drinking water standards.

[Weblink for 40 CFR Part 258](#)