

Presented below are water quality standards that are in effect for Clean Water Act purposes.

EPA is posting these standards as a convenience to users and has made a reasonable effort to assure their accuracy. Additionally, EPA has made a reasonable effort to identify parts of the standards that are not approved, disapproved, or are otherwise not in effect for Clean Water Act purposes.

APPENDIX A

Appendix A: Table 1. Human Health and Agricultural Designated Use Numeric Water Quality Criteria							
PARAMETER	CAS¹ NUMBER	DWS² (µg/L)	FC² (µg/L)	FBC² (µg/L)	PBC² (µg/L)	AgI² (µg/L)	AgL² (µg/L)
Acenaphthene	83-32-9	670	990	8400	8400	NNS	NNS
Acenaphthylene	208-96-8	NNS	NNS	NNS	NNS	NNS	NNS
Acrolein	107-02-8	6	9	2200	2200	NNS	NNS
Acrylonitrile	107-13-1	0.051	0.25	2.6	NNS	NNS	NNS
Alachlor	15972-60-8	2	NNS	1400	1400	NNS	NNS
Aldrin	309-00-2	0.00049	0.00050	0.08	4.2	k	K
Ammonia	7664-41-7	NNS	NNS	NNS	NNS	NNS	NNS
Anthracene	120-12-7	8300	40000	42000	42000	NNS	NNS
Antimony (as Sb)	7440-36-0	5.6 T	640 T	56 T	56 T	NNS	NNS
Arsenic (as As)	7440-38-2	10 T	NNS	10 T	10 T	2000 T	200 T
Asbestos	1332-21-4	7000000 Fibers/L	NNS	NNS	NNS	NNS	NNS
Atrazine	1912-24-9	3	NNS	4900	4900	NNS	NNS
Barium (as Ba)	7440-39-3	2000 T	NNS	9800 D	9800 D	NNS	NNS

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Benzene	71-43-2	2.2	51	48	NNS	NNS	NNS
Benzidine	92-87-5	0.000086	0.0002	0.006	420	0.01	0.01
Benz (a) anthracene	56-55-3	0.0038	0.018	0.12	NNS	NNS	NNS
Benzo (a) pyrene	50-32-8	0.0038	0.018	0.2	NNS	NNS	NNS
Benzo (ghi) perylene	191-24-2	NNS	NNS	NNS	NNS	NNS	NNS
Benzo (k) fluoranthene	207-08-9	0.0038	0.018	0.12	NNS	NNS	NNS
3,4-Benzofluoranthene	205-99-2	0.0038	0.018	0.12	NNS	NNS	NNS
Beryllium (as Be)	7440-41-7	4 T	0.21 T	4 T	700 T	NNS	NNS
Bis (2-chloroethoxy) methane	111-91-1	NNS	NNS	NNS	NNS	NNS	NNS
Bis (2-chloroethyl) ether	111-44-4	0.03	0.53	1.3	NNS	NNS	NNS
Bis (2-chloroisopropyl) ether	108-60-1	1400	65000	5600	5600	NNS	NNS
Boron (as B)	7440-42-8	630	NNS	12600	12600	1000 T	NNS
Bromodichloromethane	75-27-4	0.55	17	100	2800	NNS	NNS
p-Bromodiphenyl ether	101-55-3	NNS	NNS	NNS	NNS	NNS	NNS
Bromoform	75-25-2	4.3	140	180	2800	NNS	NNS
Bromomethane	74-83-9	47	1500	200	200	NNS	NNS

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Butyl benzyl phthalate	85-68-7	1500	1900	28000	28000	NNS	NNS
Cadmium (as Cd)	7440-43-9	5 T	41 T	70 T	70 T	50 T	50 T
Carbofuran	1563-66-2	40	NNS	700	700	NNS	NNS
Carbon tetrachloride	56-23-5	0.23	1.6	11	98	NNS	NNS
Chlordane	57-74-9	.00080	.00081	2	8.4	NNS	NNS
Chlorine (total residual)	7782-50-5	NNS	NNS	14000	14000	NNS	NNS
Chlorobenzene	108-90-7	130	1600	2800	2800	NNS	NNS
p-Chloro-m-cresol	59-50-7	NNS	NNS	NNS	NNS	NNS	NNS
2-Chloroethyl vinyl ether	110-75-8	NNS	NNS	NNS	NNS	NNS	NNS
Chloroform	67-66-3	5.7	470	230	1400	NNS	NNS
Chloromethane	74-87-3	NNS	NNS	NNS	NNS	NNS	NNS
Chloronaphthalene beta	91-58-7	1000	1600	11000	11000	NNS	NNS
2-Chlorophenol	95-57-8	81	150	700	700	NNS	NNS
4-Chlorophenyl phenyl ether	7005-72-3	NNS	NNS	NNS	NNS	NNS	NNS
Chromium (as Cr III)	16065-83-1	NNS	67000 T	140000 T	140000 T	NNS	NNS

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Chromium (as Cr VI)	18540-29-9	NNS	3400 T	700 T	700 T	NNS	NNS
Chromium (Total as Cr)	7440-47-3	100 T	NNS	NNS	NNS	1000 T	1000 T
Chrysene	218-01-9	0.0038	.018	0.12	NNS	NNS	NNS
Copper (as Cu)	7440-50-8	1000 D	NNS	5200 D	5200 D	5000 T	500 T
Cyanide	57-12-5	140 T	140 T	2800 T	2800 T	NNS	200 T
Dibenz (ah) anthracene	53-70-3	0.0038	0.018	0.12	NNS	NNS	NNS
Dibromochloromethane	124-48-1	0.45	13	17	2800	NNS	NNS
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	NNS	NNS	NNS	NNS	NNS
1,2-Dibromoethane (EDB)	106-93-4	0.05	NNS	1.6	NNS	NNS	NNS
Dibutyl phthalate	84-74-2	2000	4500	14000	14000	NNS	NNS
1,2-Dichlorobenzene	95-50-1	400	1300	13000	13000	NNS	NNS
1,3-Dichlorobenzene	541-73-1	320	960	1880	1880	NNS	NNS
1,4-Dichlorobenzene	106-46-7	63	100	1880	1880	NNS	NNS
3,3'-Dichlorobenzidine	91-94-1	0.021	0.028	3.1	NNS	NNS	NNS
p,p'-Dichlorodiphenyldichloroethane (DDD)	72-54-8	0.00031	0.00031	5.8	NNS	0.001	0.001

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p,p'-Dichlorodiphenyldichloroethylene (DDE)	72-55-9	0.00022	0.00022	4.1	NNS	0.001	0.001
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50-29-3	0.00022	0.00022	4.1	70	0.001	0.001
1,1-Dichloroethane	75-34-3	NNS	NNS	NNS	NNS	NNS	NNS
1,2-Dichloroethane	107-06-2	0.38	37	15	NNS	NNS	NNS
1,1-Dichloroethylene	75-35-4	330	7100	7	1300	NNS	NNS
1,2-cis-Dichloroethylene	156-59-2	70	NNS	NNS	NNS	NNS	NNS
1,2-trans-Dichloroethylene	156-60-5	140	10000	2800	2800	NNS	NNS
Dichloromethane	75-09-2	4.6	590	190	8400	NNS	NNS
2,4-Dichlorophenol	120-83-2	77	290	420	420	NNS	NNS
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70	NNS	1400	1400	NNS	NNS
1,2-Dichloropropane	78-87-5	0.50	15	NNS	NNS	NNS	NNS
1,3-Dichloropropene	542-75-6	0.34	31	7.8	42	NNS	NNS
Dieldrin	60-57-1	0.000022	0.000054	0.09	7	k	k

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Diethyl phthalate	84-66-2	17000	44000	110000	110000	NNS	NNS
Di(2-ethylhexyl) phthalate	117-81-7	1.2	2.2	100	2800	NNS	NNS
2,4-Dimethylphenol	105-67-9	380	850	2800	2800	NNS	NNS
Dimethyl phthalate	131-11-3	270000	1100000	1400000	1400000	NNS	NNS
4,6-Dinitro-o-cresol	534-52-1	13	280	55	55	NNS	NNS
2,4-Dinitrophenol	51-28-5	69	5300	280	280	NNS	NNS
2,4-Dinitrotoluene	121-14-2	0.11	3.4	280	280	NNS	NNS
2,6-Dinitrotoluene	606-20-2	NNS	NNS	NNS	NNS	NNS	NNS
Di-n-octyl phthalate	117-84-0	NNS	NNS	NNS	NNS	NNS	NNS
1,2-Diphenylhydrazine	122-66-7	0.036	0.20	1.8	NNS	NNS	NNS
Endosulfan sulfate	1031-07-8	62	89	7	7	NNS	NNS
Endosulfan (Total)	115-29-7	62	89	840	840	NNS	NNS
Endrin	72-20-8	0.059	0.060	40	40	0.004	0.004
Endrin aldehyde	7421-93-3	0.29	0.30	420	420	NNS	NNS
Ethylbenzene	100-41-4	530	2100	14000	14000	NNS	NNS
Ethyl chloride	75-00-3	NNS	NNS	NNS	NNS	NNS	NNS

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Fluoranthene	206-44-0	130	140	5600	5600	NNS	NNS
Fluorene	86-73-7	1100	5300	5600	5600	NNS	NNS
Fluoride	7782-41-4	4000	NNS	8400	8400	NNS	NNS
Heptachlor	76-44-8	0.000079	0.000079	0.4	70	NNS	NNS
Heptachlor epoxide	1024-57-3	0.000039	0.000039	0.2	2	NNS	NNS
Hexachlorobenzene	118-74-1	0.00028	0.00029	1	280	NNS	NNS
Hexachlorobutadiene	87-68-3	0.44	18	18	NNS	NNS	NNS
Hexachlorocyclohexane alpha	319-84-6	0.0026	0.0049	0.22	NNS	NNS	NNS
Hexachlorocyclohexane beta	319-85-7	0.0091	0.017	0.78	NNS	NNS	NNS
Hexachlorocyclohexane delta	319-86-8	NNS	NNS	NNS	NNS	NNS	NNS
Hexachlorocyclohexane gamma (lindane)	58-89-9	0.88	1.8	1	42	NNS	NNS
Hexachlorocyclopentadiene	77-47-4	40	1100	1000	1000	NNS	NNS
Hexachloroethane	67-72-1	1.4	3.3	100	140	NNS	NNS
Indeno (1,2,3-cd) pyrene	193-39-5	0.0038	0.018	0.12	NNS	NNS	NNS
Isophorone	78-59-1	35	960	1500	28000	NNS	NNS

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Lead (as Pb)	7439-97-1	50 T	NNS	NNS	NNS	10000 T	100 T
Manganese (as Mn)	7439-96-5	4900 T	NNS	19600 T	19600 T	10000	NNS
Mercury (as Hg)	7439-97-6	2 T	0.6 T	42 T	42 T	NNS	10 T
Methoxychlor	72-43-5	40	NNS	700	700	NNS	NNS
Methylmercury		0.3 mg/kg	0.3 mg/kg	NNS	NNS	NNS	NNS
Naphthalene	91-20-3	NNS	NNS	NNS	NNS	NNS	NNS
Nickel (as Ni)	7440-02-0	670 T	4600 T	2800 T	2800 T	NNS	NNS
Nitrate (as N)	14797-55-8	10000	NNS	224000	224000	NNS	NNS
Nitrite (as N)	14797-65-0	1000	NNS	14000	14000	NNS	NNS
Nitrate/Nitrite (as Total N)		10000	NNS	NNS	NNS	NNS	NNS
Nitrobenzene	98-95-3	17	690	70	70	NNS	NNS
o-Nitrophenol	88-75-5	NNS	NNS	NNS	NNS	NNS	NNS
p-Nitrophenol	100-02-7	NNS	NNS	NNS	NNS	NNS	NNS
N-nitrosodimethylamine	62-75-9	0.00069	3.0	0.03	NNS	NNS	NNS
N-nitrosodiphenylamine	86-30-6	3.3	6.0	290	NNS	NNS	NNS

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N-nitrosodi-n-propylamine	621-64-7	0.005	0.51	0.2	NNS	NNS	NNS
Pentachlorophenol	87-86-5	0.27	3.0	11.7	2000	NNS	NNS
Phenanthrene	85-01-8	NNS	NNS	NNS	NNS	NNS	NNS
Phenol	108-95-2	10000	360000	84000	84000	NNS	NNS
Polychlorinatedbiphenyls (PCBs)	1336-36-3	0.000064	0.000064	0.5	NNS	0.001	0.001
Pyrene	129-00-0	830	4000	4200	4200	NNS	NNS
Selenium (as Se)	7782-49-2	170 T	4200 T	700 T	700 T	20 T	50 T
Silver (as Ag)	7440-22-4	NNS	NNS	NNS	NNS	NNS	NNS
Styrene	100-42-5	100	NNS	28000	28000	NNS	NNS
Sulfides		NNS	NNS	NNS	NNS	NNS	NNS
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)	1746-01-6	0.00000000 5	0.000000 0051	0.00009	NNS	NNS	NNS
1,1,2,2-Tetrachloroethane	79-34-5	0.17	4	7	NNS	NNS	NNS
Tetrachloroethylene	127-18-4	0.69	3.3	35	1400	NNS	NNS
Thallium (as Tl)	7440-28-0	0.24 T	0.47 T	12 T	12 T	NNS	NNS
Toluene	108-88-3	1300	15000	28000	28000	NNS	NNS

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Toxaphene	8001-35-2	0.00028	0.00028	3	NNS	0.005	0.005
1,2,4-Trichlorobenzene	120-82-1	35	70	1400	1400	NNS	NNS
1,1,1-Trichloroethane	71-55-6	200	NNS	NNS	NNS	NNS	NNS
1,1,2-Trichloroethane	79-00-5	0.59	1.6	25	560	NNS	NNS
Trichloroethylene	79-01-6	2.5	30	NNS	NNS	NNS	NNS
2,4,6-Trichlorophenol	88-06-2	1.4	2.4	130	NNS	NNS	NNS
2-(2,4,5-Trichlorophenoxy) propionic acid (2,4,5-TP)	93-72-1	50	NNS	1120	1120	NNS	NNS
Trihalomethanes, Total	NNS	100	NNS	NNS	NNS	NNS	NNS
Uranium (as Ur)	7440-61-1	35 D	NNS	NNS	NNS	NNS	NNS
Vinyl chloride	75-01-4	0.025	2.4	80	NNS	NNS	NNS
Xylenes (Total)	1330-20-7	10000	NNS	280000	280000	NNS	NNS
Zinc (as Zn)	7440-66-6	2100 T	22000 T	42000 T	42000 T	10000 T	25000 T