

**Supplemental Information for
Water Quality Standards Regulatory Revisions Final Rule**

**New or Updated CWA Section 304(a) Criteria Recommendations
Published since May 30, 2000**

NOTE: The EPA's final rule revision at § 131.20(a) requires that if states and authorized tribes choose not to adopt new or revised criteria during their triennial review for any parameters for which EPA has published new or updated criteria recommendations under CWA section 304(a), they must explain their decision when reporting the results of their triennial review to EPA under CWA section 303(c)(1) and 40 CFR 131.20(c).

When states and authorized tribes conduct their next triennial review, they must provide an explanation for why they did not adopt new or revised criteria for parameters for which EPA has published new or updated CWA section 304(a) criteria recommendations since May 30, 2000. During the triennial reviews that follow, states and authorized tribes must do the same for criteria for parameters for which EPA has published CWA section 304(a) criteria recommendations since the states' or authorized tribes' most recent triennial review.

This document provides a list of the new or updated CWA section 304(a) criteria recommendations that have been published since May 30, 2000. This document does not represent the entirety of CWA section 304(a) criteria recommendations. For a complete list, see: <http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm>.

Aquatic Life Criteria Table

Pollutant	CAS Number	P/NP*	Freshwater		Saltwater		Publication Year
			CMC ** (acute) (µg/L)	CCC ** (chronic) (µg/L)	CMC ** (acute) (µg/L)	CCC ** (chronic) (µg/L)	
Acrolein	107028	P	3	3			2009
Ammonia	7664417	NP	Freshwater Ammonia Criteria are pH, Temperature and Life-stage Dependent				2013
Carbaryl	63252	NP	2.1	2.1	1.6		2012
Cadmium	7440439	P	2.0 A, B	0.25 A, B	40 A	8.8 A	2001
Copper	7440508	P	Freshwater criteria calculated using the Biotic Ligand Model		4.8 A, C	3.1 A, C	2007
Diazinon	333415	NP	0.17	0.17	0.82	0.82	2005
Nonylphenol	84852153	NP	28	6.6	7	1.7	2005

Nutrients	—	NP	See EPA's Ecoregional criteria for Total Phosphorus, Total Nitrogen, Chlorophyll <i>a</i> and Water Clarity (Secchi depth for lakes; turbidity for streams and rivers) (& Level III Ecoregional criteria)				2003
Tributyltin (TBT)	—	NP	0.46	0.072	0.42	0.0074	2004

***P/NP** – Indicates either a Priority Pollutant (P) or a Non Priority Pollutant (NP).

****Criteria Maximum Concentration and Criterion Continuous Concentration**

The Criteria Maximum Concentration (CMC) is an estimate of the highest concentration of a material in surface water to which an aquatic community can be exposed briefly without resulting in an unacceptable effect. The Criterion Continuous Concentration (CCC) is an estimate of the highest concentration of a material in surface water to which an aquatic community can be exposed indefinitely without resulting in an unacceptable effect. The CMC and CCC are just two of the six parts of an aquatic life criterion; the other four parts are the acute averaging period, chronic averaging period, acute frequency of allowed exceedence, and chronic frequency of allowed exceedence. Because CWA section 304(a) aquatic life criteria are national guidance, they are intended to be protective of the vast majority of the aquatic communities in the United States.

A Freshwater and saltwater criteria for metals are expressed in terms of the dissolved metal in the water column. See "[Office of Water Policy and Technical Guidance on Interpretation and Implementation of Aquatic Life Metals Criteria \(PDF\)](#)," (49 pp, 3MB) October 1, 1993, by Martha G. Prothro, Acting Assistant Administrator for Water, available on [NSCEP's web site](#) and 40 CFR 131.36(b)(1). Conversion Factors applied in the table can be found in Appendix A to the Preamble–Conversion Factors for Dissolved Metals.

B The freshwater criterion for this metal is expressed as a function of hardness (mg/L) in the water column. The value given here corresponds to a hardness of 100 mg/L. Criteria values for other hardness may be calculated per the equation presented in the criteria document.

C For the saltwater copper criteria, when the concentration of dissolved organic carbon is elevated, copper is substantially less toxic and use of Water–Effect Ratios might be appropriate.

Human Health Criteria Table

Pollutant	CAS Number	P/NP*	Human Health for the consumption of		Publication Year
			Water + Organism (µg/L)	Organism Only (µg/L)	
Acenaphthene	83329	P	70 A	90 A	2015
Acrolein	107028	P	3	400	2015
Acrylonitrile	107131	P	0.061 C	7.0 C	2015
Aldrin	309002	P	0.00000077 C	0.00000077 C	2015
alpha-Hexachlorocyclohexane (HCH)	319846	P	0.00036 C	0.00039 C	2015
alpha-Endosulfan	959988	P	20	30	2015
Anthracene	120127	P	300	400	2015
Antimony	7440360	P	5.6 B, D	640 B, D	2002
Benzene	71432	P	0.58-2.1 C, D	16-58 C, D	2015
Benzidine	92875	P	0.00014 C	0.011 C	2015
Benzo(a)anthracene	56553	P	0.0012 C	0.0013 C	2015
Benzo(a)pyrene	50328	P	0.00012 C, D	0.00013 C, D	2015
Benzo(b)fluoranthene	205992	P	0.0012 C	0.0013 C	2015
Benzo(k)fluoranthene	207089	P	0.012 C	0.013 C	2015

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beta-Hexachlorocyclohexane (HCH)	319857	P	0.0080 C	0.014 C	2015
beta-Endosulfan	33213659	P	20	40	2015
Bis(2-Chloro-1-methylethyl) Ether	108601	P	200	4,000	2015
Bis(2-Chloroethyl) Ether	111444	P	0.030 C	2.2 C	2015
Bis(2-Ethylhexyl) Phthalate	117817	P	0.32 C, D	0.37 C, D	2015
Bis(Chloromethyl) Ether	542881	NP	0.00015 C	0.017 C	2015
Bromoform	75252	P	7.0 C, D	120 C, D	2015
Butylbenzyl Phthalate	85687	P	0.10 C	0.10 C	2015
Carbon Tetrachloride	56235	P	0.4 C, D	5 C, D	2015
Chlordane	57749	P	0.00031 C, D	0.00032 C, D	2015
Chlorobenzene	108907	P	100 A, D	800 A, D	2015
Chlorodibromomethane	124481	P	0.80 C, D	21 C, D	2015
Chloroform	67663	P	60 D	2,000 D	2015
Chlorophenoxy Herbicide (2,4-D)	94757	NP	1,300 D	12,000 D	2015
Chlorophenoxy Herbicide (2,4,5-TP) [Silvex]	93721	NP	100 D	400 D	2015
Chrysene	218019	P	0.12 C, D	0.13 C, D	2015
Cyanide	57125	P	4 D	400 D	2015
Dibenzo(a,h)anthracene	53703	P	0.00012 C	0.00013 C	2015
Dichlorobromomethane	75274	P	0.95 C, D	27 C, D	2015

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Dieldrin	60571	P	0.0000012 C	0.0000012 C	2015
Diethyl Phthalate	84662	P	600	600	2015
Dimethyl Phthalate	131113	P	2,000	2,000	2015
Di-n-Butyl Phthalate	84742	P	20	30	2015
Dinitrophenols	25550587	NP	10	1,000	2015
Endosulfan Sulfate	1031078	P	20	40	2015
Endrin	72208	P	0.03 D	0.03 D	2015
Endrin Aldehyde	7421934	P	1	1	2015
Ethylbenzene	100414	P	68 D	130 D	2015
Fluoranthene	206440	P	20	20	2015
Fluorene	86737	P	50	70	2015
gamma-Hexachlorocyclohexane (HCH) [Lindane]	58899	P	4.2 D	4.4 D	2015
Heptachlor	76448	P	0.0000059 C, D	0.0000059 C, D	2015
Heptachlor Epoxide	1024573	P	0.000032 C, D	0.000032 C, D	2015
Hexachlorobenzene	118741	P	0.000079 C, D	0.000079 C, D	2015
Hexachlorobutadiene	87683	P	0.01 C, D	0.01 C, D	2015
Hexachlorocyclohexane (HCH) - Technical	608731	NP	0.0066 C	0.010 C	2015
Hexachlorocyclopentadiene	77474	P	4 A, D	4 A, D	2015
Hexachloroethane	67721	P	0.1 C	0.1 C	2015
Indeno(1,2,3-cd)pyrene	193395	P	0.0012 C	0.0013 C	2015
Isophorone	78591	P	34 C	1,800 C	2015

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Methylmercury	22967926	P		0.3 mg/kg E	2001
Methoxychlor	72435	NP	0.02 D	0.02 D	2015
Methyl Bromide	74839	P	100	10,000	2015
Methylene Chloride	75092	P	20 C, D	1,000 C, D	2015
Nitrobenzene	98953	P	10 A	600 A	2015
Nitrosodibutylamine, N	924163	NP	0.0063 C	0.22 C	2002
Nitrosodiethylamine, N	55185	NP	0.0008 C	1.24 C	2002
Nitrosopyrrolidine, N	930552	NP	0.016 C	34 C	2002
N-Nitrosodimethylamine	62759	P	0.00069 C	3.0 C	2002
N-Nitrosodi-n-Propylamine	621647	P	0.0050 C	0.51 C	2002
N-Nitrosodiphenylamine	86306	P	3.3 C	6.0 C	2002
Pathogen and Pathogen Indicators	—		See EPA's 2012 Recreational Water Quality Criteria		2012
Pentachlorobenzene	608935	NP	0.1	0.1	2015
Pentachlorophenol	87865	P	0.03 A, C, D	0.04 A, C, D	2015
Phenol	108952	P	4,000 A	300,000 A	2015
Polychlorinated Biphenyls (PCBs)		P	0.000064 C, D, F	0.000064 C, D, F	2002
Pyrene	129000	P	20	30	2015
Selenium	7782492	P	170 D	4200 D	2002
Tetrachloroethylene	127184	P	10 C, D	29 C, D	2015
Thallium	7440280	P	0.24 D	0.47 D	2003
Toluene	108883	P	57 D	520 D	2015

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Toxaphene	8001352	P	0.00070 C, D	0.00071 C, D	2015
Trichloroethylene	79016	P	0.6 C, D	7 C, D	2015
Vinyl Chloride	75014	P	0.022 C, D	1.6 C, D	2015
Zinc	7440666	P	7,400 A	26,000 A	2002
1,1,1-Trichloroethane	71556	P	10,000 D	200,000 D	2015
1,1,2,2-Tetrachloroethane	79345	P	0.2 C	3 C	2015
1,1,2-Trichloroethane	79005	P	0.55 C, D	8.9 C, D	2015
1,1-Dichloroethylene	75354	P	300 D	20,000 D	2015
1,2,4,5-Tetrachlorobenzene	95943	NP	0.03	0.03	2015
1,2,4-Trichlorobenzene	120821	P	0.071 D	0.076 D	2015
1,2-Dichlorobenzene	95501	P	1,000 D	3,000 D	2015
1,2-Dichloroethane	107062	P	9.9 C, D	650 C, D	2015
1,2-Dichloropropane	78875	P	0.90 C, D	31 C, D	2015
1,2-Diphenylhydrazine	122667	P	0.03 C	0.2 C	2015
Trans-1,2-Dichloroethylene	156605	P	100 D	4,000 D	2015
1,3-Dichlorobenzene	541731	P	7	10	2015
1,3-Dichloropropene	542756	P	0.27 C	12 C	2015
1,4-Dichlorobenzene	106467	P	300 D	900 D	2015
2,3,7,8-TCDD (Dioxin)	1746016	P	5.0E-9 C, D	5.1E-9 C, D	2002
2,4,5-Trichlorophenol	95954	NP	300 A	600 A	2015
2,4,6-Trichlorophenol	88062	P	1.5 A, C	2.8 A, C	2015
2,4-Dichlorophenol	120832	P	10 A	60 A	2015

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2,4-Dimethylphenol	105679	P	100 A	3,000 A	2015
2,4-Dinitrophenol	51285	P	10	300	2015
2,4-Dinitrotoluene	121142	P	0.049 C	1.7 C	2015
2-Chloronaphthalene	91587	P	800	1,000	2015
2-Chlorophenol	95578	P	30 A	800 A	2015
2-Methyl-4,6-Dinitrophenol	534521	P	2	30	2015
3,3'-Dichlorobenzidine	91941	P	0.049 C	0.15 C	2015
3-Methyl-4-Chlorophenol	59507	P	500 A	2,000 A	2015
p,p'-Dichlorodiphenyldichloroethane (DDD)	72548	P	0.00012 C	0.00012 C	2015
p,p'-Dichlorodiphenyldichloroethylene (DDE)	72559	P	0.000018 C	0.000018 C	2015
p,p'-Dichlorodiphenyltrichloroethane (DDT)	50293	P	0.000030 C	0.000030 C	2015

***P/NP** - Indicates either a Priority Pollutant (P) or a Non Priority Pollutant (NP).

A This chemical has a criterion for organoleptic (taste and odor) effects. In some cases, the organoleptic criterion may be more stringent.

B This criterion was revised to reflect EPA's q1* or RfD as contained in the Integrated Risk Information System (IRIS) as of May 17, 2002. The fish tissue bioconcentration factor (BCF) is from the 1980 Ambient Water Quality Criteria document.

C This criterion is based on carcinogenicity of 10⁻⁶ risk.

D EPA has issued a Maximum Contaminant Level (MCL) for this chemical under the Safe Drinking Water Act. In some cases, the MCL may be more stringent. For more information see [EPA's National Primary Drinking Water Regulations](#).

E This fish tissue residue criterion for methylmercury is based on a total fish consumption rate of 0.0175 kg/day.

F This criterion applies to total PCBs (e.g., the sum of all congener or all isomer or homolog or Aroclor analyses).

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