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A BILL FOR AN ACT

RELATING TO WATER QUALITY STANDARDS.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1 SECTION 1. The purpose of this Act is to revise certain 2 state water quality standards for inland and marine waters on an 3 interim basis to conform to levels recommended by the State of 4 Hawaii and United States Environmental Protection Agency, until 5 the state department of health proposes, and the United States 6 Environmental Protection Agency approves, standards for the 7 pollutants and indicator organism identified in this Act, 8 pursuant to the review of state water quality standards mandated 9 under Section 303(c) of the Federal Water Pollution Control Act 10 of 1972, as amended. The legislature finds that these revisions 11 are important to the economic and social development of the 12 State and that these revised standards are adequate to fully 13 protect the designated and existing uses of the State's inland 14 and marine waters.

15 SECTION 2. (a) In accordance with Section 303(c) of the 16 Federal Water Pollution Control Act of 1972, as amended, the 17 water quality criteria in the 2006 United States Environmental 18 Protection Agency National Recommended Water Quality Criteria, HB834 SD1.DOC *HB834 SD1.DOC* *HB834 SD1.DOC*

H.B. NO. ⁸³⁴ H.D. 2 S.D. 1

1	including the applicable footnotes and appendices, for all										
2	Priority Toxic Pollutants and Non-Priority Pollutants for the										
3	protection of aquatic life in surface water (acute and chronic										
4	effects in fresh water and salt water), and for the protection										
5	of human health for consumption (organism only), are hereby										
6	adopted by the State as water quality standards and apply to all										
7	state inland and marine waters, except for:										
8	(1) The 2006 National Recommended Water Quality Criteria										
9	for arsenic, cadmium, chromium, chromium III, chromium										
10	VI, copper, lead, mercury, nickel, selenium, silver,										
11	and zinc; and										
12	(2) The 2006 National Recommended Water Quality Criteria										
13	for non-priority pollutants not currently listed in										
14	chapter 11-54, Hawaii administrative rules.										
15	(b) When there is no nationally recommended criterion										
16	promulgated for a Priority or Non-Priority Pollutant, relevant										
17	provisions in chapter 11-54, Hawaii administrative rules,										
18	relating to that pollutant are not repealed by virtue of or										
19	deemed inconsistent with this Act and remain in effect.										
20	(c) The following table of numeric standards for toxic										
21	pollutants applicable to all waters fully incorporates the water										
22	<pre>quality standards adopted by the State pursuant to subsections HB834 SD1.DOC *HB834 SD1.DOC* *HB834 SD1.DOC*</pre>										

H.B. NO. ⁸³⁴ H.D. 2 S.D. 1

1 (a) and (b) and the relevant provisions of chapter 11-54, Hawaii 2 Administrative Rules. Any standards that are not repealed or 3 deemed inconsistent with this Act shall remain in effect. The 4 freshwater standards shall apply where the dissolved inorganic 5 ion concentration is less than 0.5 parts per thousand and the 6 saltwater standards shall apply above 0.5 parts per thousand. 7 Values for metals refer to the dissolved fraction. All values 8 are expressed in micrograms per liter.

	Numerical Standards for Toxic	nogen						Human Health for the	
Po	ollutants Applicable to All Waters (A)	carcino		Freshwater		Saltwater		consumption of	
EP	EPA Priority Pollutant No. and Name ¹		CAS Number	CMC 1 (acute)	CCC 1 (chronic)	CMC 1 (acute)	CCC 1 (chronic)	Organism Only	FR Cite/ Source
1	Antimony		7440360	3000	ns	ns	ns	640 B	65FR66443
2	Arsenic		7440382	360	190	69	36	ns	
3	Beryllium	x	7440417	43	ns	ns	ns	0.038	
4	Cadmium		7440439	3*	3*	43	9.3	ns	
5b	Chromium (VI)		18540299	16	11	1100	50	ns	
6	Copper			6*	6*	2.9	2.9	ns	
7	Lead		7439921	29*	29*	140	5.6	ns	
8a	Mercury		7439976	2.4	0.55	2.1	0.025	0.047	
8b	Methylmercury		22967926	1.4 D,K,hh	0.77 D,K,hh	1.8 D,ee,hh	0.94 D,ee,hh	0.3 mg/kg J	EPA823-R-01-001
9	Nickel			5*	5*	75	8.3	33	
10	Selenium		7782492	20	5	300	71	ns	
11	Silver		7440224	1*	1*	2.3	ns	ns	
12	Thallium		7440280	470	ns	710	ns	0.47	68FR75510
13	Zinc		7440666	22*	22*	95	86	ns	
14	Cyanide		57125	22 K,Q	5.2 K,Q	1 Q,bb	1 Q,bb	140 jj	68FR75510 57FR60848 EPA820/B-96-001
	-								
15	Asbestos		1332214	ns	ns	ns	ns	ns	57FR60848
16	2,3,7,8-TCDD (Dioxin)	х	1746016	0.003	ns	ns	ns	5.1E-9 C	65FR66443
17	Acrolein		107028	23	ns	18	ns	290	65FR66443
18	Acrylonitrile	x	107131	2500	ns	ns	ns	0.25 B,C	65FR66443
19	Benzene	x	71432	1800	ns	1700	ns	51 B,C	IRIS 01/19/00 &65FR66443
20	Bromoform		75252	ns	ns	ns	ns	140 B,C	65FR66443
21	Carbon Tetrachloride	x	56235	12000	ns	16000	ns	1.6 B,C	65FR66443
22	Chlorobenzene		108907	ns	ns	ns	ns	1,600 U	68FR75510
23	Chlorodibromomethane		124481	ns	ns	ns	ns	13 B,C	65FR66443
24	Chloroethane		75003	ns	ns	ns	ns	ns	
25	2-Chloroethylvinyl Ether		110758	ns	ns	ns	ns	ns	
26	Chloroform	x	67663	9600	ns	ns	ns	470 C,P	62FR42160

¹ Office of Science and Technology. 2006. National Recommended Water Quality Criteria. U.S. Environmental Protection Agency, Office of Water (4304T).

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Numerical Standards for Toxic Pollutants Applicable to All Waters (A)		arcinogen		Fres	hwater	Sal	twater	Human Health for the consumption of	
EP.	A Priority Pollutant No. and Name ¹	car	CAS Number	CMC 1 (acute)	CCC 1 (chronic)	CMC 1 (acute)	CCC 1 (chronic)	Organism Only	FR Cite/ Source
27	Dichlorobromomethane		75274	ns	ns	ns	ns	17 B,C	65FR66443
28	1,1-Dichloroethane		75343	ns	ns	ns	ns	ns	
29	1,2-Dichloroethane	x	107062	39000	ns	38000	ns	37 B,C	65FR66443
30	1,1-Dichloroethylene		75354	ns	ns	ns	ns	7,100	68FR75510
31	1,2-Dichloropropane		78875	ns	ns	ns	ns	15 B,C	65FR66443
32	1,3-Dichloropropene		542756	2000	ns	260	ns	21 C	68FR75510
33	Ethylbenzene		100414	11000	ns	140	ns	2,100	68FR75510
34	Methyl Bromide		74839	ns	ns	ns	ns	1,500 B	65FR66443
35	Methyl Chloride		74873	ns	ns	ns	ns	ns	65FR31682
36	Methylene Chloride		75092	ns	ns	ns	ns	590 B,C	65FR66443
37	1,1,2,2-Tetrachloroethane	x	79345	ns	ns	3000	ns	4.0 B,C	65FR66443
38	Tetrachloroethylene	x	127184	1800	ns	3400	145	3.3 C	65FR66443
39	Toluene		108883	5800	ns	2100	ns	15,000	68FR75510
40	1,2-Trans- Dichloroethylene		156605	ns	ns	ns	ns	10,000	68FR75510
41	1,1,1-Trichloroethane		71556	6000	ns	10400	ns	340,000	65FR31682
42	1,1,2-Trichloroethane	x	79005	6000	ns	ns	ns	16 B,C	65FR66443
43	Trichloroethylene	x	79016	15000	ns	700	ns	30 C	65FR66443
44	Vinyl Chloride	x	75014	ns	ns	ns	ns	2.4 C,kk	68FR75510
45	2-Chlorophenol		95578	1400	ns	ns	ns	150 B,U	65FR66443
46	2,4-Dichlorophenol		120832	670	ns	ns	ns	290 B,U	65FR66443
47	2,4-Dimethylphenol		105679	700	ns	ns	ns	850 B,U	65FR66443
48	2-Methyl-4,6- Dinitrophenol		534521	ns	ns	ns	ns	280	65FR66443
49	2,4-Dinitrophenol		51285	ns	ns	ns	ns	5,300 B	65FR66443
50	2-Nitrophenol		88755	ns	ns	ns	ns	ns	
51	4-Nitrophenol		100027	ns	ns	ns	ns	ns	
52	3-Methyl-4-Chlorophenol		59507	ns	ns	ns	ns	υ	
53	Pentachlorophenol		87865	19 F,K	15 F,K	13 bb	7.9 bb	3.0 в,С,Н	65FR66443 65FR31682
54	Phenol		108952	3400	ns	170	ns	1,700,000 B,U	65FR66443
55	2,4,6-Trichlorophenol	x	88062	ns	ns	ns	ns	2.4 B,C,U	65FR66443
56	Acenaphthene		83329	570	ns	320	ns	990 B,U	65FR66443
57	Acenaphthylene		208968	ns	ns	ns	ns	ns	

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Numerical Standards for Toxic Pollutants Applicable to All Waters (A)		carcinogen				Sal	twater	Human Health for the consumption of	
EP.	A Priority Pollutant No. and Name ¹	Ŭ	CAS Number	CMC 1 (acute)	CCC 1 (chronic)	CMC 1 (acute)	CCC 1 (chronic)	Organism Only	FR Cite/ Source
58	Anthracene		120127	ns	ns	ns	ns	40,000 B	65FR66443
59	Benzidine	x	92875	800	ns	ns	ns	0.00020 B,C	65FR66443
60	Benzo(a) Anthracene		56553	ns	ns	ns	ns	0.018 B,C	65FR66443
61	Benzo(a) Pyrene		50328	ns	ns	ns	ns	0.018 B,C	65FR66443
62	Benzo(b) Fluoranthene		205992	ns	ns	ns	ns	0.018 B,C	65FR66443
63	Benzo(ghi) Perylene		191242	ns	ns	ns	ns	ns	
64	Benzo(k) Fluoranthene		207089	ns	ns	ns	ns	0.018 B,C	65FR66443
65	Bis (2-Chloroethoxy) Methane		111911	ns	ns	ns	ns	ns	
66	Bis(2-Chloroethyl) Ether	x	111444	ns	ns	ns	ns	0.53 B,C	65FR66443
67	Bis(2-Chloroisopropyl) Ether		108601	ns	ns	ns	ns	65,000 B	65FR66443
68	Bis (2-Ethylhexyl) PhthalateX		117817	ns	ns	ns	ns	2.2 B,C	65FR66443
69	4-Bromophenyl Phenyl Ether		101553	ns	ns				USFR00445
				IIS	115	ns	ns	ns	
70	Butylbenzyl PhthalateW		85687	ns	ns	ns	ns	1,900 B	65FR66443
71	2-Chloronaphthalene 4-Chlorophenyl Phenyl		91587	ns	ns	ns	ns	1,600 B	65FR66443
72	Ether		7005723	ns	ns	ns	ns	ns	
73	Chrysene		218019	ns	ns	ns	ns	0.018 B,C	65FR66443
74	Dibenzo(a,h)Anthracene		53703	ns	ns	ns	ns	0.018 B,C	65FR66443
75	1,2-Dichlorobenzene		95501	ns	ns	ns	ns	1,300	68FR75510
76	1,3-Dichlorobenzene		541731	ns	ns	ns	ns	960	65FR66443
77	1,4-Dichlorobenzene		106467	ns	ns	ns	ns	190	68FR75510
78	3,3'-Dichlorobenzidine	x	91941	ns	ns	ns	ns	0.028 B,C	65FR66443
79	Diethyl PhthalateW		84662	ns	ns	ns	ns	44,000 B	65FR66443
80	Dimethyl PhthalateW		131113	ns	ns	ns	ns	1,100,000	65FR66443
81	Di-n-Butyl PhthalateW		84742	ns	ns	ns	ns	4,500 B	65FR66443
82	2,4-Dinitrotoluene		121142	ns	ns	ns	ns	3.4 C	65FR66443
83	2,6-Dinitrotoluene		606202	ns	ns	ns	ns	ns	
84	Di-n-Octyl Phthalate		117840	ns	ns	ns	ns	ns	
85	1,2-Diphenylhydrazine		122667	ns	ns	ns	ns	0.20 B,C	65FR66443
86	Fluoranthene		206440	1300	ns	13	ns	140 B	65FR66443
87	Fluorene		86737	ns	ns	ns	ns	5,300 B	65FR66443
87	Hexachlorobenzene	x		ns	ns	ns	ns	0.00029 B,C	65FR66443

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Name Name <th< td=""><td>92</td><td>Ideno (1,2,3-cd) Pyrene</td><td></td><td>193395</td><td>ns</td><td>ns</td><td>ns</td><td>ns</td><td>0.018 B,C</td><td>65FR66443</td></th<>	92	Ideno (1,2,3-cd) Pyrene		193395	ns	ns	ns	ns	0.018 B,C	65FR66443
95 Nitrobenzene 1 99933 9000 ns 2200 ns 690 B,H,U 657866443 96 N-Nitrosodimethylamine X 62759 ns ns ns ns ns 0.51 B,C 657866443 97 N-Nitrosodi-n-Propylamine X 66306 ns ns ns ns 0.51 B,C 657866443 98 N-Nitrosodi-n-Propylamine X 66306 ns ns ns ns ns 0.51 B,C 657866443 99 Phenanthrene Z 85018 ns	93	Isophorone		78591	39000	ns	4300	ns	960 B,C	65FR66443
95 Nitrobenzene 1 99933 9000 ns 2200 ns 690 B,H,U 657866443 96 N-Nitrosodimethylamine X 62759 ns ns ns ns ns 0.51 B,C 657866443 97 N-Nitrosodi-n-Propylamine X 66306 ns ns ns ns 0.51 B,C 657866443 98 N-Nitrosodi-n-Propylamine X 66306 ns ns ns ns ns 0.51 B,C 657866443 99 Phenanthrene Z 85018 ns	94			91203	770	ns	780	ns		
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97 N-Nitrosodin-Propylamine 1 621647 ns ns <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
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99 Phenanthrene 85018 ns ns ns ns ns ns ns 100 Pyrene 129000 ns										
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102 Aldrin x 309002 3.0 G ns 1.3 G ns 0.000050 B,C 65FR6443 65FR31662 103 alpha-BBC x 319846 ns ns ns ns 0.0049 B,C 65FR6443 104 beta-BHC x 319857 ns ns ns ns 0.017 B,C 65FR6443 105 gamma-BHC (Lindane) x 55899 0.95 K 0.08 0.16 G ns 1.8 68FR75510 106 delta-BHC i 319868 ns ns ns ns ns ns ns ns ns istrational content of the content of	100	Pyrene		129000	ns	ns	ns	ns	4,000 B	65FR66443
102 Aldrin x 309002 3.0 G ns 1.3 G ns 0.00005 B,C 6FFR31682 103 alpha-EHC x 319846 ns ns ns ns 0.0049 B,C 65FR6443 104 beta-EHC x 319857 ns ns ns ns 0.017 B,C 65FR6443 105 gamma-EHC (Lindane) x 58899 0.95 K 0.08 0.16 C ns 1.8 65FR6443 106 delta-EHC x 319868 ns ns ns ns ns 1.8 65FR6443 107 chlordane x 57749 2.4 G G,aa 0.09 G 0.004 G,aa 0.0002 B,C 65FR6443 108 4,4'-DDT x 50293 1.1 0.01 0.13 G,ii 0.001 0.00022 B,C 65FR6443 110 4,4'-DDT x 72548 ns ns ns ns ns ns ns 0.0001 G,aa 0	101	1,2,4-Trichlorobenzene		120821	ns	ns	ns	ns	70	
104 beta-BHC x 319857 ns	102	Aldrin	x	309002	3.0 G	ns	1.3 G	ns	0.000050 B,C	
105 gamma-BHC (Lindane) x 58899 0.95 K 0.08 0.16 G ns 1.8 65FR31682 68FR75510 106 delta-BHC 319868 ns ns ns ns ns ns ns ns 107 chlordane x 57749 2.4 G 0.0043 G,aa 0.09 G 0.004 G,aa 0.00081 B,C 65FR36443 65FR31682 108 4,4'-DDT x 50293 G,1 0.13 G,ii 0.13 G,ii 0.00022 B,C 65FR66443 109 4,4'-DDE 72559 ns ns ns ns ns 0.00022 B,C 65FR66443 110 4,4'-DDE 72548 ns ns ns ns ns 0.00031 B,C 65FR66443 111 Dieldrin x 60571 0.24 K 0.056 K,O 0.71 G G,aa 0.000054 B,C 65FR6443 112 alpha-Endosulfan 33213659 G,Y 0.056 G,Y 0.034 G,Y 0.0087 G,Y 89 B 65FR6443 <t< td=""><td>103</td><td>alpha-BHC</td><td>x</td><td>319846</td><td>ns</td><td>ns</td><td>ns</td><td>ns</td><td>0.0049 B,C</td><td>65FR66443</td></t<>	103	alpha-BHC	x	319846	ns	ns	ns	ns	0.0049 B,C	65FR66443
105 gamma-BHC (Lindane) x 58899 0.95 x 0.08 0.16 G ns 1.8 68FR75510 106 delta-BHC x 319868 ns	104	beta-BHC	x	319857	ns	ns	ns	ns	0.017 B,C	65FR66443
107 Chlordane x 57749 2.4 G 0.0043 G,aa 0.09 G 0.004 G,aa 0.00081 B,C 65FR66443 65FR31682 108 4,4'-DDT x 50293 G,ii 0.001 G,aa,ii 0.13 G,ii 0.001 G,aa,ii 0.00022 B,C 65FR66443 65FR31682 109 4,4'-DDE 72559 ns ns ns ns 0.00031 B,C 65FR66443 110 4,4'-DDE 72558 ns ns ns ns ns 0.00031 B,C 65FR66443 110 4,4'-DDD 72548 ns ns ns ns ns o.00031 B,C 65FR66443 111 Dieldrin x 60571 0.24 K 0.056 K,O 0.71 G G,aa 0.00054 B,C 65FR66443 112 alpha-Endosulfan x 60571 0.24 K 0.056 G,Y 0.034 G,Y 0.0087 G,Y 89 B 65FR66443 113 beta-Endosulfan x 32213659 0.22 0.056 G,Y 0.034 G,Y 0.0087 G,Y 89 B 65FR66443 114 Endosulfan Sulfate 1031078 ns <	105	gamma-BHC (Lindane)	x	58899	0.95 K	0.08	0.16 G	ns	1.8	
107 Chlordane x 57749 2.4 G G,aa 0.09 G 0.004 G,aa 0.0001 B,C 65FR3682 108 4,4'-DDT x 50293 G,ii G,aai 0.13 G,ii G,aa,ii 0.001 G,aa,ii 0.0002 B,C 65FR3682 109 4,4'-DDE x 72559 ns ns ns ns 0.0002 B,C 65FR6643 110 4,4'-DDD x 72559 ns ns ns ns 0.00021 B,C 65FR6643 111 d,4'-DDD x 72559 ns ns ns ns 0.00031 B,C 65FR6643 111 d,4'-DDD x 66571 0.24 K 0.056 K,O 0.71 G 0.0019 0.000054 B,C 65FR6643 112 alpha-Endosulfan x 660571 0.22 G,Y 0.056 G,Y 0.034 G,Y 0.0087 G,Y 89 B 65FR6643 112 alpha-Endosulfan x 3321365 0.22 G,Y 0.056 G,Y 0.034 G,Y 0.0087 G,Y 89 B 65FR6443 113 beta-Endosulfan Sulfate x 1031078	106	delta-BHC		319868	ns	ns	ns	ns	ns	
In In <thin< th=""> In In In<!--</td--><td>107</td><td>Oblandara</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thin<>	107	Oblandara								
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113 beta-Endosulfan I 33213659 G,Y 0.056 G,Y 0.034 G,Y 0.0087 G,Y 89 B 65FR31682 114 Endosulfan Sulfate I 1031078 ns ns ns ns sns sns<	112	alpha-Endosulfan		959988		0.056 G,Y	0.034 G,Y	0.0087 G,Y	89 B	
115 Endrin 72208 0.086 K 0.036 K,0 0.037 G 0.0023 G,aa 0.06 65FR31682 68FR75510 116 Endrin Aldehyde 7421934 ns ns ns ns 0.30 B,H 65FR66443 116 Endrin Aldehyde 0 0.0038 0.0038 0.000000 0.00000 0.00000	113	beta-Endosulfan		33213659		0.056 G,Y	0.034 G,Y	0.0087 G,Y	89 B	
115 Endrin 72208 0.086 K 0.037 G 0.0023 G,aa 0.06 68FR75510 116 Endrin Aldehyde 7421934 ns ns ns ns 0.30 B,H 65FR66443 117 Image: Strate St	114	Endosulfan Sulfate		1031078	ns	ns	ns	ns	89 B	65FR66443
0.0038 65FR66443	115	Endrin		72208	0.086 K	0.036 K,O	0.037 G	0.0023 G,aa	0.06	
0.0038 65FR66443	116	Endrin Aldehyde		7421934	ns	ns	ns	ns	0.30 В,Н	65FR66443
	117	Heptachlor	x	76448	0.52 G		0.053 G	0.0036 G,aa	0.000079 B,C	

Numerical Standards for Toxic Pollutants Applicable to All Waters (A)	cinogen		Fres	hwater	Sal	twater	Human Health for the consumption of	
EPA Priority Pollutant No. and Name ¹	car	CAS Number	CMC 1 (acute)	CCC 1 (chronic)	CMC 1 (acute)	CCC 1 (chronic)	Organism Only	FR Cite/ Source

	Numerical Standards for Toxic Silutants Applicable to All Waters (A)	cinogen		Fres	hwater	Sal	twater	Human Health for the consumption of	
EP	EPA Priority Pollutant No. and Name ²		CAS Number	CMC 1 (acute)	CCC 1 (chronic)	CMC 1 (acute)	CCC 1 (chronic)	Organism Only	FR Cite/ Source
118	Heptachlor Epoxide		1024573	0.52 G,V	0.0038 G,V,aa	0.053 G,V	0.0036 G,V,aa	0.000039 B,C	65FR66443 65FR31682
119	Polychlorinated Biphenyls (PCBs)	x	-	2.0	0.014	10	0.03 N,aa	0.000064 B,C,N	65FR66443 65FR31682
120 Toxaphene FOOTNOTES			8001352	0.73	0.0002 aa	0.21	0.0002 aa	0.00028 B,C	65FR66443 65FR31682

Numerical Standards for Toxic Pollutants Applicable to All Waters (A)

* The Value listed is the minimum standard. Depending upon the receiving water CaCO3 hardness, higher standards may be calculated using the respective formula in the USEPA publication Quality Criteria for Water (EPA 44/5-86-001, Revised May 1, 1987)

 ${f B}$ This criterion has been revised to reflect The Environmental Protection Agency's q1* or RfD, as contained in the Integrated Risk Information System (IRIS) as of May 17, 2002. The fish tissue bioconcentration factor (BCF) from the 1980 Ambient Water Quality Criteria document was retained in each case.

C This criterion is based on carcinogenicity of 10^{-6} risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5} , move the decimal point in the recommended criterion one place to the right).

D Freshwater and saltwater criteria for metals are expressed in terms of the dissolved metal in the water column. The recommended water quality criteria value was calculated by using the previous 304(a) aquatic life criteria expressed in terms of total recoverable metal, and multiplying it by a conversion factor (CF). The term "Conversion Factor" (CF) represents the recommended conversion factor for converting a metal criterion expressed as the total recoverable fraction in the water column to a criterion expressed as the dissolved fraction in the water column. Conversion Factors for saltwater CCCs are not currently available. Conversion factors derived for saltwater CMCs have been used for both saltwater CMCs and CCCs). See "Office of Water Policy and Technical Guidance on Interpretation and Implementation of Aquatic Life Metals Criteria" October 1, 1993, by Martha G. Prothro, Acting Assistant Administrator for Water, available from the Water Resource Center and 40CFR\$131.36(b)(1). Conversion Factors

F Freshwater aquatic life values for pentachlorophenol are expressed as a function of pH, and are calculated as follows: CMC = exp(1.005(pH)-4.869); CCC = exp(1.005(pH)-5.134). Values displayed in table correspond to a pH of 7.8.

G This Criterion is based on 304(a) aquatic life criterion issued in 1980, and was issued in one of the following documents: Aldrin/Dieldrin (EPA 440/5-80-019), Chlordane EPA 440/5-80-027), DDT (EPA 440/5-80-038), Endosulfan (EPA 440/5-80-046), Endrin (EPA 440/5-80-047), Heptachlor (EPA 440/5-80-052), Hexachlorocyclohexame (EPA 440/5-80-054), Silver (EPA 440/5-80-071). The Minimum Data Requirements and derivation procedures were different in the 1980 Guidelines than in the 1985 Guidelines. For example, a "CMC" derived using the 1980 Guidelines was derived to be used as an instantaneous maximum. If assessment is to be done using an averaging period, the values given should be divided by 2 to obtain a value that is more comparable to a CMC derived using the 1985 Guidelines.

H No criterion for protection of human health from consumption of aquatic organisms excluding water was presented in the 1980 criteria document or in the 1986 Quality Criteria for Water. Nevertheless, sufficient information was presented in the 1980 document to allow the calculation of a criterion, even though the results of such a calculation were not shown in the document.

 ${f J}$ This fish tissue residue criterion for methylmercury is based on a total fish consumption rate of 0.0175 kg/day.

K This recommended criterion is based on a 304(a) aquatic life criterion that was issued in the 1995 Updates: Water Quality Criteria Documents for the Protection of Aquatic Life in Ambient Water, (EPA-820-B-96-001, September 1996). This value was derived

² Office of Science and Technology. 2006. National Recommended Water Quality Criteria. U.S. Environmental Protection Agency, Office of Water (4304T).

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using the GLI Guidelines (60FR15393-15399, March 23, 1995; 40CFR132 Appendix A); the difference between the 1985 Guidelines and the GLI Guidelines are explained on page iv of the 1995 Updates. None of the decisions concerning the derivation of this criterion were affected by any considerations that are specific to the Great Lakes.

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

O The derivation of the CCC for this pollutant (Endrin) did not consider exposure through the diet, which is probably important for aquatic life occupying upper trophic levels.

P Although a new RfD is available in IRIS, the surface water criteria will not be revised until the National Primary Drinking Water Regulations: Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR) is completed, since public comment on the relative source contribution (RSC) for chloroform is anticipated.

Q This recommended water quality criterion is expressed as g free cyanide (as CN)/L.

 ${f U}$ The organoleptic effect criterion is more stringent than the value for priority toxic pollutants.

 \mathbf{Y} This value was derived from data for endosulfan and is most appropriately applied to the sum of alpha-endosulfan and beta-endosulfan.

aa This criterion is based on a 304(a) aquatic life criterion issued in 1980 or 1986, and was issued in one of the following documents: Aldrin/Dieldrin (EFA 440/5-80-019), Chlordane (EFA 440/5-80-027), DDT (EFA 440/5-80-038), Endrin (EFA 440/5-80-047), Heptachlor (EFA 440/5-80-052), Polychlorinated biphenyls (EFA 440/5-80-068), Toxaphene (EFA 440/5-86-006). This CCC is currently based on the Final Residue Value (FRV) procedure. Since the publication of the Great Lakes Aquatic Life Criteria Guidelines in 1995 (60FR15393-15399, March 23, 1995), the Agency no longer uses the Final Residue Value procedure for deriving CCCs for new or revised 304(a) aquatic life criteria. Therefore, the Agency anticipates that future revisions of this CCC will not be based on the FRV procedure.

bb This water quality criterion is based on a 304(a) aquatic life criterion that was derived using the 1985 Guidelines(Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses, PB85-227049, January 1985) and was issued in one of the following criteria documents: Arsenic (EPA 440/5-84-033), Cadmium (EPA-822-R-01-001), Chromium (EPA 440/5-84-029), Copper(EPA 440/5-84-031), Cyanide(EPA 440/5-84-028), Lead (EPA 440/5-84-027), Nickel (EPA 440/5-86-004), Pentachlorophenol (EPA 440/5-86-009), Toxaphene, (EPA 440/5-86-006), Zinc (EPA 440/5-87-003).

ee This recommended water quality criterion was derived on page 43 of the mercury criteria document (EPA 440/5-84-026, January 1985). The saltwater CCC of 0.025 ug/L given on page 23 of the criteria document is based on the Final Residue Value procedure in the 1985 Guidelines. Since the publication of the Great Lakes Aquatic Life Criteria Guidelines in 1995 (60FR15393-15399, March 23, 1995), the Agency no longer uses the Final Residue Value procedure for deriving CCCs for new or revised 304(a) aquatic life criteria.

hh This recommended water quality criterion was derived from data for inorganic mercury (II), but is applied here to total mercury. If a substantial portion of the mercury in the water column is methylmercury, this criterion will probably be under protective. In addition, even though inorganic mercury is converted to methylmercury and methylmercury bioaccumulates to a great extent, this criterion does not account for uptake via the food chain because sufficient data were not available when the criterion was derived.

jj This recommended water quality criterion is expressed as total cyanide, even though the IRIS RFD we used to derive the criterion is based on free cyanide. The multiple forms of cyanide that are present in ambient water have significant differences in toxicity due to their differing abilities to liberate the CN-moiety. Some complex cyanides require even more extreme conditions than refluxing with sulfuric acid to liberate the CN-moiety. Thus, these complex cyanides are expected to have little or no 'bioavailability' to humans. If a substantial fraction of the cyanide present in a water body is present in a complexed form (e.g., Fe4[Fe(CN)₆]₃), this criterion may be over conservative.

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	merical Standards for Toxic bllutants Applicable to All Waters (B)	carcinogen		Fres	nwater	Salt	water	Human Health for the consumptio n of	
EPA 1	Non-Priority Pollutant No. and Name ³	carc	CAS Number	CMC 1 (acute)	CCC 1 (chronic)	CMC 1 (acute)	CCC 1 (chronic)	Organism Only	FR Cite/ Source
2	Aluminum pH 6.5 - 9.0		7429905	750 G,I	87 G,I,L	ns	ns	ns	53FR33178
9	Chlorine		7782505	19	11	13	7.5	ns	Gold Book
12	Chloropyrifos		2921882	0.083 G	0.041 G	0.011 G	0.0056 G	ns	Gold Book
14	Demeton		8065483	ns	0.1 F	ns	0.1 F	ns	Gold Book
15	Ether, Bis(Chloromethyl)	x	542881	ns	ns	ns	ns	0.00029 E,H	65FR66443
17	Guthion		86500	ns	0.01 F	ns	0.01 F	ns	Gold Book
19	Hexachlorocyclo-hexane- Technical	x	608731	ns	ns		ns	0.0414	Gold Book
21	Malathion		121755	ns	0.1 F	ns	0.1 F	ns	Gold Book
23	Methoxychlor		72435	ns	0.03 F	ns	0.03 F	ns	Gold Book
24	Mirex		2385855	ns	0.001 F	ns	0.001 F	ns	Gold Book
26	Nitrosamines	x	-	1950	ns	ns	ns	1.24	Gold Book
29	Nitrosodibutylamine, N	x	924163	ns	ns	ns	ns	0.22 A,H	65FR66443
30	Nitrosodiethylamine, N	x	55185	ns	ns	ns	ns	1.24 A,H	Gold Book
31	Nitrosopyrrolidine, N	x	930552	ns	ns	ns	ns	34 н	65FR66443
35	Parathion		56382	0.065 J	0.013 J	ns	ns	ns	Gold Book
36	Pentachlorobenzene		608935	ns	ns	ns	ns	1.5 E	65FR66443
45	Tetrachlorobenzene,1,2,4,5		95943	ns	ns	ns	ns	1.1 E	65FR66443
46	Tributyltin (TBT)		-	0.46 Q	0.072 Q	0.42 Q	0.0074 Q	ns	69FR342

FOOTNOTES

Numerical Standards for Toxic Pollutants Applicable to All Waters (B) A This human health criterion is the same as originally published in the Red Book which predates the 1980 methodology and did not

It is infinite interior of the same as originary published in the Ked Book which predates the prior methodology and did it is utilize the fish injestion BCF approach. This same criterion value is now published in the Gold Book.
 This criterion has been 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) used to derive the original criterion was retained in each case.
 The erivation of this value is presented in the Red Book (EPA 440/9-76-023, July, 1976).
 This value is based on a 304(a) aquatic life criterion that was derived using the 1985 Guidelines (Guidelines for Deriving 1985).

Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses, PB85-227049, January 1985) and was issued in one of the following criteria documents: Aluminum (EPA 440/5-86-008); Chloride (EPA 440/5-88-001); Chloropyrifos (EPA 440/5-86-005).

 ${f H}$ This criterion is based on carcinogenicity of 10⁻⁶ risk. Alternate risk levels may be obtained by moving the decimal point (e.g., for a risk level of 10^{-5} , move the decimal point in the recommended criterion one place to the right). I This value for aluminum is expressed in terms of total recoverable metal in the water column.

J This value is based on a 304(a) aquatic life criterion that was issued in the 1995 Updates: Water Quality Criteria Documents for the Protection of Aquatic Life in Ambient Water (EPA-820-B-96-001). This value was derived using the GLI Guidelines (60FR15393-15399, March 23, 1995; 40CFR132 Appendix A); the differences between the 1985 Guidelines and the GLI Guidelines are explained on page iv of the 1995 Updates. No decision concerning this criterion was affected by any considerations that are specific to the Great Lakes.

L There are three major reasons why the use of Water-Effect Ratios might be appropriate.

1. The value of 87 μ g/l is based on a toxicity test with the striped bass in water with pH = 6.5-6.6 and hardness <10 mg/L. Data in "Aluminum Water-Effect Ratio for the 3M Plant Effluent Discharge, Middleway, West Virginia" (May 1994) indicate that aluminum is substantially less toxic at higher pH and hardness, but the effects of pH and hardness are not well quantified at this time.

³ Office of Science and Technology. 2006. National Recommended Water Quality Criteria. U.S.Environmental Protection Agency, Office of Water (4304T).

2. In tests with the brook trout at low pH and hardness, effects increased with increasing concentrations of total aluminum even though the concentration of dissolved aluminum was constant, indicating that total recoverable is a more appropriate measurement than dissolved, at least when particulate aluminum is primarily aluminum hydroxide particles. In surface waters, however, the total recoverable procedure might measure aluminum associated with clay particles, which might be less toxic than aluminum associated with aluminum hydroxide.

3. EPA is aware of field data indicating that many high quality waters in the U.S. contain more than 87 g aluminum/L, when either total recoverable or dissolved is measured.

 ${\bf Q}$ EPA announced the availability of a draft updated tributyltin (TBT) document on August 7, 1997 (62FR42554). The Agency has reevaluated this document and anticipates releasing an updated document for public comment in the near future.

Nu	Numerical Standards for Toxic Pollutants Applicable to All Waters (C)			Fresh	water	Sal	twater	Human Health for the consumption of	
	Pollutant Name	carcinogen	CAS Number	CMC 1 (acute)	CCC 1 (chronic)	CMC 1 (acute)	CCC 1 (chronic)	Organism Only	FR Cite/ Source
	DDT - metabolite TDE	x		0.03	ns	1.2	ns	ns	
	Dichlorobenzenes	x		370	ns	660	ns	850	
	Dichloropropanes			7700	ns	3400	ns	ns	
	Dinitrotoluenes	x		110	ns	200	ns	3	
	Endosulfan			0.22	0.056	0.034	0.0087	52	
	Nitrophenols	x		77	ns	1600	ns	ns	
	Pentachloroethanes			2400	ns	130	ns	ns	
	Polynuclear aromatic hydrocarbons	x		ns	ns	ns	ns	0.01	
	Tetrachloroethanes			3100	ns	ns	ns	ns	
	Tetrachlorophenol(2,3,5,6)		58902	ns	ns	ns	440	ns	

Note - Compounds listed in the plural in the Pollutant column represent complex mixtures of isomers. Numbers listed to the right of these compounds refer to the total allowable concentration of any combination of isomers of the compound, not only to concentrations of individual isomers.

9

10 SECTION 3. (a) In accordance with 40 Code of Federal 11 Regulations, Section 131.41, the State designates as coastal 12 recreation waters all waters up to three miles from shore to a 13 depth of thirty-three meters, excluding areas where water 14 contact recreational activities are prohibited by state or 15 federal law or regulation. 16 (b) In coastal recreation waters within five hundred

17 meters from the shoreline, Enterococcus content shall not exceed

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a geometric mean of thirty-five colony forming units per one
 hundred milliliters in not less than five samples, which shall
 be spaced to cover a period between twenty-five and thirty days.
 No single sample shall exceed the single sample maximum of one
 hundred and four colony forming units per one hundred
 milliliters or the site-specific one-sided seventy-five per cent
 confidence limit.

8 Coastal recreation waters between five hundred meters (C) 9 and three miles from shore shall be designated as infrequent use 10 coastal recreation waters, and Enterococcus content in these 11 waters shall not exceed a geometric mean of thirty-five colony 12 forming units per one hundred milliliters in not less than five 13 samples, which shall be spaced to cover a period between twenty-14 five and thirty days. No single sample shall exceed the single 15 sample maximum of five hundred and one colony forming units per 16 one hundred milliliters or the site-specific one-sided ninety-17 five per cent confidence limit.

18 (d) At locations where samples are taken less frequently 19 than five samples for each twenty-five to thirty days, no single 20 sample shall exceed the single sample maximum nor shall the 21 geometric mean of these samples taken during the twenty-five to

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thirty-day period exceed thirty-five colony forming units per
 one hundred milliliters.

3 SECTION 4. Except as provided in section 2(b) of this Act,
4 to the extent any provision in chapter 11-54, Hawaii
5 Administrative Rules, is inconsistent with this Act, that
6 provision shall be superseded upon approval by the United States
7 Environmental Protection Agency of a corresponding provision or
8 standard. Water quality standards not inconsistent with this
9 Act shall remain in effect.

SECTION 5. If any provisions of this Act, or the application thereof to any person or circumstances, is held invalid, the invalidity does not affect other provisions or applications of this Act which can be given effect without the invalid provision or application, and to this end the provisions of this Act are severable.

16 SECTION 6. This Act takes effect upon approval; provided 17 that the specific water quality standards prescribed in this Act 18 shall take effect upon their approval by the United States 19 Environmental Protection Agency. Provisions in this Act 20 relating to any particular pollutant or indicator organism shall 21 be repealed upon the approval by the United States Environmental 22 Protection Agency of water quality standards for the pollutant HB834 SD1.DOC 13 *HB834 SD1.DOC* *HB834 SD1.DOC*



1 or indicator organism identified in this Act, following the

2 State's review and adoption of water quality standards pursuant

- **3** to Section 303(c) of the Federal Water Pollution Control Act of
- **4** 1972, as amended.

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Report Title:

Water Quality Standards

Description:

Amends state water quality standards for marine waters to conform to federal standards. (SD1)