	A		B							Significant Figures	
	Chemical	CAS Number	Cancer Slope Factor, CSF (per mg/kg·d) (B1)	Relative Source Contribution, RSC (-) (B2)	Reference Dose, RfD (mg/kg·d) (B3)	Bioaccumula-tion Factor for Trophic Level 2 (L/kg tissue)	Bioaccumula-tion Factor for Trophic Level 3 (L/kg tissue)	Bioaccumulation Factor for Trophic Level 4 (L/kg tissue) (B4)	Bioconcentration Factor (L/kg tissue) (B5)	Cancer Based	Non-Cancer Based
1	1,1,1-Trichloroethane	71556	-	0.50	2	6.9	9.0	10	-	-	1
2	1,1,2,2-Tetrachloroethane	79345	0.2	-	-	5.7	7.4	8.4	-	1	1
3	1,1,2-Trichloroethane	79005	0.057	-	-	6.0	7.8	8.9	-	2	1
4	1,1-Dichloroethylene	75354	-	0.50	0.05	2.0	2.4	2.6	-	-	1
5	1,2,4-Trichlorobenzene	120821	0.029	-	-	2,800	1,500	430	-	2	1
6	1,2-Dichlorobenzene	95501	-	0.50	0.3	52	71	82	-	-	1
7	1,2-Dichloroethane	107062	0.0033	-	-	1.6	1.8	1.9	-	2	2
8	1,2-Dichloropropane	78875	0.036	-	-	2.9	3.5	3.9	-	2	2
9	1,2-Diphenylhydrazine	122667	0.8	-	-	18	24	27	-	1	-
10	1,2-Trans-Dichloroethylene	156605	-	0.50	0.02	3.3	4.2	4.7	-	-	1
11	1,3-Dichlorobenzene	541731	-	0.50	0.002	31	120	190	-	-	1
12	1,3-Dichloropropene	542756	0.122	-	-	2.3	2.7	3.0	-	2	2
13	1,4-Dichlorobenzene	106467	-	0.50	0.07	28	66	84	-	-	1
14	2,3,7,8-TCDD (Dioxin)**	1746016	156,000	-	-	-	-	-	5,000	2	1
15	2,4,6-Trichlorophenol	88062	0.011	-	-	94	130	150	-	2	1
16	2,4-Dichlorophenol	120832	-	0.50	0.003	31	42	48	-	-	1
17	2,4-Dimethylphenol	105679	-	0.50	0.02	4.8	6.2	7.0	-	-	1
18	2,4-Dinitrophenol	51285	-	0.50	0.002	4.4	4.4	4.4	-	-	1
19	2,4-Dinitrotoluene	121142	0.667	-	-	2.8	3.5	3.9	-	2	1
20	2-Chloronaphthalene	91587	-	0.80	0.08	150	210	240	-	-	1
21	2-Chlorophenol	95578	-	0.50	0.005	3.8	4.8	5.4	-	-	1
22	2-Methyl-4,6-Dinitrophenol	534521	-	0.50	0.0003	6.8	8.9	10	-	-	1
23	3,3'-Dichlorobenzidine	91941	0.45	-	-	44	60	69	-	2	-
24	3-Methyl-4-Chlorophenol	59507	-	0.50	0.1	25	34	39	-	-	1
25	4,4'-DDD	72548	0.24	-	-	33,000	140,000	240,000	-	2	1
26	4,4'-DDE	72559	0.167	-	-	270,000	1,100,000	3,100,000	-	2	1
27	4,4'-DDT	50293	0.34	-	-	35,000	240,000	1,100,000	-	2	1
28	Acenaphthene	83329	-	0.50	0.06	510	510	510	-	-	1
29	Acrolein	107028	-	0.50	0.0005	1.0	1.0	1.0	-	-	1
30	Acrylonitrile	107131	0.54	-	-	1.0	1.0	1.0	-	2	-
31	Aldrin	309002	17	-	-	18,000	310,000	650,000	-	2	1
32	alpha-BHC	319846	6.3	-	-	1,700	1,400	1,500	-	2	1
33	alpha-Endosulfan	959988	-	0.50	0.006	130	180	200	-	-	1
34	Anthracene	120127	-	0.50	0.3	610	610	610	-	-	1
35	Antimony	7440360	-	0.50	0.0004	-	-	-	1	2	1
36	Arsenic**	7440382	1.75	-	-	-	-	-	44	2	2
37	Asbestos	1332214	-	-	-	-	-	-	-	2	2
38	Benzene- Upper CSF[a]	71432	[b]0.055	-	-	3.6	4.5	5.0	-	2	1
39	Benzidine	92875	230	-	-	1.4	1.6	1.7	-	2	1
40	Benzo(a) Anthracene	56553	0.73	-	-	3,900	3,900	3,900	-	2	-
41	Benzo(a) Pyrene	50328	7.3	-	-	3,900	3,900	3,900	-	2	-
42	Benzo(b) Fluoranthene	205992	0.73	-	-	3,900	3,900	3,900	-	2	-
43	Benzo(k) Fluoranthene	207089	0.073	-	-	3,900	3,900	3,900	-	2	-

	A		B							Significant Figures	
	Chemical	CAS Number	Cancer Slope Factor, CSF (per mg/kg·d) (B1)	Relative Source Contribution, RSC (-) (B2)	Reference Dose, RfD (mg/kg·d) (B3)	Bioaccumula-tion Factor for Trophic Level 2 (L/kg tissue)	Bioaccumula-tion Factor for Trophic Level 3 (L/kg tissue)	Bioaccumulation Factor for Trophic Level 4 (L/kg tissue) (B4)	Bioconcentration Factor (L/kg tissue) (B5)	Cancer Based	Non-Cancer Based
44	beta-BHC	319857	1.8	-	-	110	160	180	-	2	-
45	beta-Endosulfan	33213659	-	0.50	0.006	80	110	130	-	-	1
46	Bis(2-Chloroethyl) Ether	111444	1.1	-	-	1.4	1.6	1.7	-	2	-
47	Bis(2-Chloro-1-Methylethyl) Ether*	108601	-	0.50	0.04	6.7	8.8	10	-	-	1
48	Bis(2-Ethylhexyl) Phthalate	117817	0.014	-	-	710	710	710	-	2	1
49	Bromoform	75252	0.0045	-	-	5.8	7.5	8.5	-	2	1
50	Butylbenzyl Phthalate	85687	0.0019	-	-	19,000	19,000	19,000	-	2	2
51	Carbon Tetrachloride	56235	0.07	-	-	9.3	12	14	-	1	1
52	Chlordane	57749	0.35	-	-	5,300	44,000	60,000	-	2	1
53	Chlorobenzene	108907	-	0.50	0.02	14	19	22	-	-	1
54	Chlorodibromomethane	124481	0.040	-	-	3.7	4.8	5.3	-	2	1
55	Chloroform	67663	-	0.50	0.01	2.8	3.4	3.8	-	-	1
56	Chrysene	218019	0.0073	-	-	3,900	3,900	3,900	-	2	-
57	Copper	7440508	-	-	-	-	-	-	-	2	2
58	Cyanide	57125	-	0.50	0.0006	-	-	-	1	-	1
59	Dibenzo(a,h) Anthracene	53703	7.3	-	-	3,900	3,900	3,900	-	2	-
60	Dichlorobromomethane	75274	0.034	-	-	3.4	4.3	4.8	-	2	1
61	Dieldrin	60571	16	-	-	14,000	210,000	410,000	-	2	1
62	Diethyl Phthalate	84662	-	0.50	0.8	920	920	920	-	-	1
63	Dimethyl Phthalate	131113	-	0.50	10	4,000	4,000	4,000	-	-	1
64	Di-n-Butyl Phthalate	84742	-	0.50	0.1	2,900	2,900	2,900	-	-	1
65	Endosulfan Sulfate	1031078	-	0.50	0.006	88	120	140	-	-	1
66	Endrin	72208	-	0.80	0.0003	4,600	36,000	46,000	-	-	1
67	Endrin Aldehyde	7421934	-	0.80	0.0003	440	920	850	-	-	1
68	Ethylbenzene	100414	-	0.50	0.022	100	140	160	-	-	2
69	Fluoranthene	206440	-	0.50	0.04	1,500	1,500	1,500	-	-	1
70	Fluorene	86737	-	0.50	0.04	230	450	710	-	-	1
71	gamma-BHC; Lindane	58899	-	0.50	0.0047	1,200	2,400	2,500	-	-	2
72	Heptachlor	76448	4.1	-	-	12,000	180,000	330,000	-	2	1
73	Heptachlor Epoxide	1024573	5.5	-	-	4,000	28,000	35,000	-	2	2
74	Hexachlorobenzene	118741	1.02	-	-	18,000	46,000	90,000	-	2	1
75	Hexachlorobutadiene	87683	0.04	-	-	23,000	2,800	1,100	-	1	1
76	Hexachlorocyclopentadiene	77474	-	0.50	0.006	620	1,500	1,300	-	-	1
77	Hexachloroethane	67721	0.04	-	-	1,200	280	600	-	1	1
78	Indeno(1,2,3-cd) Pyrene	193395	0.73	-	-	3,900	3,900	3,900	-	2	-
79	Isophorone	78591	0.00095	-	-	1.9	2.2	2.4	-	2	1
80	Methyl Bromide	74839	-	0.50	0.02	1.2	1.3	1.4	-	-	1
81	Methylene Chloride	75092	0.002	-	-	1.4	1.5	1.6	-	1	1
82	Methylmercury	22967926	-	2.70E-05	0.0001	-	-	-	-	2	1
83	Nickel	7440020	-	0.50	0.02	-	-	-	47	2	1
84	Nitrobenzene	98953	-	0.50	0.002	2.3	2.8	3.1	-	-	1
85	N-Nitrosodimethylamine	62759	51	-	-	-	-	-	0.026	2	2
86	N-Nitrosodi-n-Propylamine	621647	7.0	-	-	-	-	-	1.13	2	2
87	N-Nitrosodiphenylamine	86306	0.0049	-	-	-	-	-	136	2	2
88	Pentachlorophenol (PCP)	87865	0.4	-	-	44	290	520	-	1	1

	A		B							Significant Figures	
	Chemical	**CAS Number**	**Cancer Slope Factor, CSF (per mg/kg·d) (B1)**	**Relative Source Contribution, RSC (-) (B2)**	**Reference Dose, RfD (mg/kg·d) (B3)**	**Bioaccumula-tion Factor for Trophic Level 2 (L/kg tissue)**	**Bioaccumula-tion Factor for Trophic Level 3 (L/kg tissue)**	**Bioaccumulation Factor for Trophic Level 4 (L/kg tissue) (B4)**	**Bioconcentration Factor (L/kg tissue) (B5)**	**Cancer Based**	**Non-Cancer Based**
89	Phenol	108952	-	0.50	0.6	1.5	1.7	1.9	-	-	1
90	Polychlorinated Biphenyls (PCBs)		2	-	-	-	-	-	31,200	1	2
91	Pyrene	129000	-	0.50	0.03	860	860	860	-	-	1
92	Selenium	7782492	-	0.50	0.005	-	-	-	4.8	2	1
93	Tetrachloroethylene	127184	0.0021	-	-	49	66	76	-	2	1
94	Thallium**	7440280	-	-	0.000068	-	-	-	116	2	2
95	Toluene	108883	-	0.50	0.0097	11	15	17	-	-	2
96	Toxaphene	8001352	1.1	-	-	1,700	6,600	6,300	-	2	2
97	Trichloroethylene	79016	0.05	-	-	8.7	12	13	-	1	1
98	Vinyl Chloride	75014	1.5	-	-	1.4	1.6	1.7	-	2	1
99	Zinc	7440666	-	0.50	0.3	-	-	-	47	2	1

[a] EPA's national 304(a) recommended criteria for benzene use a CSF range of 0.015 to 0.055 per mg/kg-day. EPA used the higher end of the CSF range (0.055 per mg/kg-day) to derive the benzene criteria for th

[*] Bis(2-Chloro-1-Methylethyl) Ether was previously listed as Bis(2-Chloroisopropyl) Ether

[**] EPA withdrew its proposal for these criteria, so the CWA-effective criteria are those that EPA originally promulgated for Washington in the National Toxics Rule.

Equations:

Freshwater Criteria, Carcinogen	((ELCR/CSF)*BW*1000)/(DWI+(FCR*BCF))
Freshwater Criteria, Non-carcinogen	(RfD*RSC*BW*1000)/[DWI+(FCR*BCF)]
Marine Criteria, Carcinogen	((ELCR/CSF)*BW*1000)/(FCR*BCF))
Marine Criteria, Non-carcinogen	(RfD*RSC*BW*1000)/(FCR*BCF)
Dissolved Methylmercury Criteria, mar	((RfD-RSC)*BW*1000)/(FCR*BCF)
Dissolved Methylmercury Criteria, fres	((RfD-RSC)*BW*1000)/[DWI+(FCR*BCF)]

Key Inputs:

Description	Variable	Value	Units
Body Weight	BW	80	kg
Drinking Water Intake	DWI	2.4	L/d
Fish Consumption Rate for Aquatic Tro	FCR_2	0	kg/d
Fish Consumption Rate for Aquatic Tro	FCR_3	0	kg/d
Fish Consumption Rate for Aquatic Tro	FCR_4	0.175	kg/d
Fish Consumption Rate (Total)	FCR_T	0.175	kg/d
Target excess lifetime cancer risk	ELCR	0.000001	unitless

BAF Methodology				2002 BCF Methodology				Draft Values		
Cancer-based AWQC water and organism (µg/L) *raw value*	Cancer-based AWQC organism only (µg/L) *raw value*	Noncancer-based AWQC water and organism (µg/L) *raw value*	Noncancer-based AWQC organism only (µg/L) *raw value*	Cancer-based AWQC water and organism (µg/L) *raw value*	Cancer-based AWQC organism only (µg/L) *raw value*	Noncancer-based AWQC water and organism (µg/L) *raw value*	Noncancer-based AWQC organism only (µg/L) *raw value*	Cancer-based AWQC water and organism (µg/L) *draft value*	Cancer-based AWQC organism only (µg/L) *draft value*	Noncancer-based AWQC water and organism (µg/L) *draft value*
-	-	19277.10843	45714.28571					--	--	20000
0.103359173	0.272108844	-	-					0.1	0.3	--
0.354645299	0.901129228	-	-					0.35	0.9	--
-	-	700.525394	4395.604396					--	--	700
0.035526345	0.036659411	-	-					0.036	0.037	--
-	-	716.4179104	836.2369338					--	--	700
8.871884444	72.90954659	-	-					8.9	73	--
0.720915563	3.256003256	-	-					0.72	3.3	--
0.014035088	0.021164021	-	-					0.01	0.02	--
-	-	248.2544608	972.6443769					--	--	200
-	-	2.244039271	2.406015038					--	--	2
0.224183831	1.2490242	-	-					0.22	1.2	--
-	-	163.7426901	190.4761905					--	--	200
-	-	-	-					--	--	
0.253847374	0.277056277	-	-					0.25	0.28	--
-	-	11.11111111	14.28571429					--	--	10
-	-	220.6896552	653.0612245					--	--	200
-	-	25.23659306	103.8961039					--	--	30
0.038909985	0.175736308	-	-					0.039	0.18	--
-	-	115.3153153	121.9047619					--	--	100
-	-	59.79073244	211.6402116					--	--	60
-	-	2.891566265	6.857142857					--	--	3
0.012281712	0.014722797	-	-					0.012	0.015	--
-	-	433.604336	586.0805861					--	--	400
7.93605E-06	7.93651E-06	-	-					0.0000079	0.0000079	--
8.83023E-07	8.83027E-07	-	-					0.00000088	0.00000088	--
1.22229E-06	1.22231E-06	-	-					0.0000012	0.0000012	--
-	-	26.18657938	26.8907563					--	--	30
-	-	7.766990291	114.2857143					--	--	8
0.057533261	0.846560847	-	-					0.058	0.85	--
4.13695E-08	4.13704E-08	-	-					0.000000041	0.000000041	--
4.79366E-05	4.83749E-05	-	-					0.000048	0.000048	--
-	-	6.417112299	6.857142857					--	--	6
-	-	109.9404489	112.412178					--	--	100
-	-	-	-			6.213592233	91.42857143	--	--	6
-	-	-	-					--	--	--
0.444136017	1.662337662	-	-					0.44	1.7	--
0.000128944	0.001169163	-	-					0.00013	0.0012	--
0.000160007	0.00016057	-	-					0.00016	0.00016	--
1.60007E-05	1.6057E-05	-	-					0.000016	0.000016	--
0.000160007	0.00016057	-	-					0.00016	0.00016	--
0.001600074	0.0016057	-	-					0.0016	0.0016	--

BAF Methodology				2002 BCF Methodology				Draft Values		
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0.001311046	0.001410935	-	-					0.0013	0.0014	--
-	-	9.542743539	10.54945055					--	--	10
0.026960991	0.244461421	-	-					0.027	0.24	--
-	-	385.5421687	914.2857143					--	--	400
0.045118719	0.045990227	-	-					0.045	0.046	--
4.573061808	11.95144725	-	-					4.6	12	--
0.012654103	0.012663237	-	-					0.013	0.013	--
0.235640648	0.466472303	-	-					0.2	0.5	--
2.17637E-05	2.17687E-05	-	-					0.000022	0.000022	--
-	-	128	207.7922078					--	--	100
0.601051841	2.156334232	-	-					0.6	2.2	--
-	-	130.5057096	601.5037594					--	--	100
0.016000736	0.016057002	-	-					0.016	0.016	--
-	-	-	-					--	--	--
-	-	-	-			9.32038835	137.1428571	--	--	9
1.60007E-05	1.6057E-05	-	-					0.000016	0.000016	--
0.726216412	2.801120448	-	-					0.73	2.8	--
6.96841E-08	6.96864E-08	-	-					0.00000007	0.00000007	--
-	-	195.8384333	198.757764					--	--	200
-	-	569.476082	571.4285714					--	--	600
-	-	7.844675427	7.881773399					--	--	8
-	-	8.921933086	9.795918367					--	--	9
-	-	0.002384382	0.002385093					--	--	0.002
-	-	0.127026133	0.12907563					--	--	0.1
-	-	28.94736842	31.42857143					--	--	29
-	-	6.0400151	6.095238095					--	--	6
-	-	12.63324122	12.87726358					--	--	10
-	-	0.427369857	0.429714286					--	--	0.43
3.37859E-07	3.37874E-07	-	-					0.00000034	0.00000034	--
2.37384E-06	2.37477E-06	-	-					0.0000024	0.0000024	--
4.97901E-06	4.97977E-06	-	-					0.000005	0.000005	--
0.010261673	0.01038961	-	-					0.01	0.01	--
-	-	1.043932144	1.054945055					--	--	1
0.018621974	0.019047619	-	-					0.02	0.02	--
0.000160007	0.00016057	-	-					0.00016	0.00016	--
29.86188876	200.5012531	-	-					30	200	--
-	-	302.4574669	3265.306122					--	--	300
14.92537313	142.8571429	-	-					10	100	--
-	-	-	0.033371429					--	--	--
-	-	-	-			75.29411765	97.26443769	--	--	80
-	-	27.18776551	147.4654378					--	--	30
-	-	-	-	0.000652358	0.344753286			0.00065	0.34	--
-	-	-	-	0.004399412	0.057793029			0.0044	0.058	--
-	-	-	-	0.623150023	0.685988681			0.62	0.69	--
0.002141328	0.002197802	-	-					0.002	0.002	--

BAF Methodology				2002 BCF Methodology				Draft Values		
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-	-	8783.165599	72180.45113					--	--	9000
-	-	-	-	7.32279E-06	7.32601E-06			0.000007	0.000007	--
-	-	7.848266841	7.973421927					--	--	8
-	-	-	-			61.72839506	238.0952381	--	--	60
2.426448286	2.864303616	-	-					2.4	2.9	--
-	-	72.18604651	130.4201681					--	--	72
6.58225E-05	6.59658E-05	-	-					0.000066	0.000066	--
0.342245989	0.703296703	-	-					0.3	0.7	--
0.019771393	0.179271709	-	-					0.02	0.18	--
-	-	-	-			1129.411765	1458.966565	--	--	1000

ıe purposes of this table.

	C	
Noncancer-based AWQC organism only (µg/L) *draft value*	Water & Organisms (µg/L) (C1)	Organisms Only (µg/L) (C2)
50000	20000	50000
--	0.1	0.3
--	0.35	0.90
4000	700	4000
--	0.036	0.037
800	700	800
--	8.9	73
--	0.72	3.3
--	0.01	0.02
1000	200	1000
2	2	2
--	0.22	1.2
200	200	200
	0.000000013	0.000000014
--	0.25	0.28
10	10	10
700	200	700
100	30	100
--	0.039	0.18
100	100	100
200	60	200
7	3	7
--	0.012	0.015
600	400	600
--	0.0000079	0.0000079
--	0.00000088	0.00000088
--	0.0000012	0.0000012
30	30	30
100	8	100
--	0.058	0.85
--	0.000000041	0.000000041
--	0.000048	0.000048
7	6	7
100	100	100
90	6	90
	0.018	0.14
--	7,000,000 (fibers/L)	-
--	0.44	1.7
--	0.00013	0.0012
--	0.00016	0.00016
--	0.000016	0.000016
--	0.00016	0.00016
--	0.0016	0.0016

	C	
Noncancer-based AWQC organism only (µg/L) *draft value*	Water & Organisms (µg/L) (C1)	Organisms Only (µg/L) (C2)
--	0.0013	0.0014
10	10	10
--	0.027	0.24
900	400	900
--	0.045	0.046
--	4.6	12
--	0.013	0.013
--	0.2	0.5
--	0.000022	0.000022
200	100	200
--	0.60	2.2
600	100	600
--	0.016	0.016
--	1300	-
100	9	100
--	0.000016	0.000016
--	0.73	2.8
--	0.000000070	0.000000070
200	200	200
600	600	600
8	8	8
10	9	10
0.002	0.002	0.002
0.1	0.1	0.1
31	29	31
6	6	6
10	10	10
0.43	0.43	0.43
--	0.00000034	0.00000034
--	0.0000024	0.0000024
--	0.0000050	0.0000050
--	0.01	0.01
1	1	1
--	0.02	0.02
--	0.00016	0.00016
--	30	200
3000	300	3000
--	10	100
0.03	-	0.03
100	80	100
100	30	100
--	0.00065	0.34
--	0.0044	0.058
--	0.62	0.69
--	0.002	0.002

	C	
Noncancer-based AWQC organism only (µg/L) *draft value*	Water & Organisms (µg/L) (C1)	Organisms Only (µg/L) (C2)
70000	9000	70000
--	0.000007	0.000007
8	8	8
200	60	200
--	2.4	2.9
	1.7	6.3
130	72	130
--	0.000066	0.000066
--	0.3	0.7
--	0.020	0.18
1000	1000	1000