

Table C-2. WATER QUALITY CRITERIA - ORGANIC CONSTITUENTS

Organic Constituent	BASIN PLAN				Drinking Water Standards (California & Federal) Maximum Contaminant Levels (MCLs)					California Recommended Public Health Level (RPHL) Department of Health Services	California State Action Levels Department of Health Services		Other Taste and Odor Thresholds
	Ocean Waters (1) ‡ = carcinogen	Bays and Estuaries	Inland Surface Waters and Ground Waters		California Dept. of Health Services		US Environmental Protection Agency				Toxicity	Taste & Odor	
			Primary MCL	Secondary MCL	Primary MCL	Secondary MCL	MCL Goal						
Acenaphthylene	0.0088 ‡ (2)												
Acenaphthylene	220												
Acrylonitrile	0.10 ‡												
Aldrin	0.000022 ‡										0.05 (LOQ)		
Anthracene	0.0088 ‡ (2)												
Atrazine			3		3		3		3	3 (11)			
Bentazon			18		18					18 (11)			
Benz(a)anthracene	0.0088 ‡ (2)						0.1 (11)		zero (11)				
Benzene	5.9 ‡		1		1		5		zero	0.35 (11)			
Benzidine	0.000069 ‡												
Benzo(b)fluoranthene	0.0088 ‡ (2)						0.2 (11)		zero (11)				
Benzo(k)fluoranthene	0.0088 ‡ (2)						0.2 (11)		zero (11)				
Benzo(g,h,i)perylene	0.0088 ‡ (2)												
Benzo(a)pyrene	0.0088 ‡ (2)						0.2 (12)		zero (12)				
alpha-BHC	0.008 (3)										0.7		
beta-BHC	0.008 (3)										0.3		
Gamma-BHC (Lindane)	0.008 (3)		4		4		0.2		0.2				
delta-BHC	0.008 (3)												
technical-BHC	0.008 (3)												
Bis(2-chloroethoxy) methane	4.4												
Bis(2-chloroethyl) ether	0.045 ‡												
Bis(2-chloroisopropyl) ether	1200												
Bromodichloromethane	130 ‡ (4)		100 (10)		100 (10)		100 (10)						
Bromoform	130 ‡ (4)		100 (10)		100 (10)		100 (10)						
Bromomethane	130 ‡ (4)												
Carbofuran			18		18		40		40	18 (11)			
Carbon tetrachloride	0.90 ‡		0.5		0.5		5		zero	0.5 (11)			
Catechol	30 (5)												
Chlordane	0.000023 ‡ (6)		0.1		0.1		2		zero	0.03 (11)			
Chlorobenzene	570		30		30		100		100	30 (11)			
4-Chloro-m-cresol	1 (7)												
4-Chloro-o-cresol	1 (7)												
6-Chloro-m-cresol	1 (7)												
Chloroform	130 ‡		100 (10)		100 (10)		100 (10)						
Chloromethane	130 ‡ (4)												
2-Chlorophenol	1 (7)												
3-Chlorophenol	1 (7)												
4-Chlorophenol	1 (7)												
Chrysene	0.0088 ‡ (2)						0.2 (11)		zero (11)				
2,4-D			100		100		70		70				
DBCP			0.2		0.2		0.2		zero	0.002 (11)			
DDD	0.00017 ‡ (8)												
DDE	0.00017 ‡ (8)												
DDT	0.00017 ‡ (8)												
Dibenz(a,h)anthracene	0.0088 ‡ (2)						0.3 (11)		zero (11)				
Dibromochloromethane	130 ‡ (4)		100 (10)		100 (10)		100 (10)						
Dibutyl phthalate	3,500												
1,2-Dichlorobenzene	5,100 (9)						600	10 (11)	600		130 (9)	10	
1,3-Dichlorobenzene	5,100 (9)						600		600		130 (9)	20	

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	Ocean Waters (1) ‡ = carcinogen	Bays and Estuaries	Inland Surface Waters and Ground Waters		California Dept. of Health Services		US Environmental Protection Agency			MCL Goal	Toxicity		Taste & Odor
			Primary MCL	Secondary MCL	Primary MCL	Secondary MCL							
1,4-Dichlorobenzene	18 ‡		5		5		75	5 (11)	75	5 (11)			
3,3'-Dichlorobenzidine	0.0081 ‡												
1,1-Dichloroethane			5		5					5 (11)			
1,2-Dichloroethane	130 ‡		0.5	0.5		5		zero	0.3 (11)				
1,1-Dichloroethylene	7,100		6	6		7		7	6 (11)				
cis-1,2-Dichloroethylene			6	6		70		70	6 (11)				
trans-1,2-Dichloroethylene			10	10		100		100	10 (11)				
Dichloromethane	450 ‡					5 (12)		zero (12)		40			
2,3-Dichlorophenol	1 (7)												
2,4-Dichlorophenol	1 (7)												
2,5-Dichlorophenol	1 (7)												
2,6-Dichlorophenol	1 (7)												
3,4-Dichlorophenol	1 (7)												
1,2-Dichloropropane			5	5		5		zero	5 (11)				
1,3-Dichloropropene	8.9 ‡		0.5	0.5					0.2 (11)				
Dieldrin	0.000040 ‡									0.05 (LOQ)			
Di(2-ethylhexyl)phthalate	3.5 ‡		4	4		6 (12)		zero (12)	4 (11)				
Diethyl phthalate	33,000							5,000 (11)					
2,4-Dimethylphenol	30 (5)										400		
Dimethyl phthalate	820,000												
4,6-Dinitro-o-cresol	30 (5)												
Dinitrophenol													
2,4-Dinitrophenol	4												
2,4-Dinitrotoluene	2.6 ‡												
1,2-Diphenylhydrazine	0.16 ‡												
Endosulfan	9 (16)												
Endosulfan sulfate	9 (16)												
Endrin	0.002		0.2	0.2		2 (12) / 0.2		2 (12)					
Ethylbenzene	4,100		680	680		700	30 (11)	700	680 (11)			29 (18)	
Ethylene dibromide (EDB)			0.02	0.02		0.05		zero	0.01 (11)				
Fluoranthene	15												
Fluorene	0.0088 ‡ (2)												
Glyphosate			700	700		700 (12)		700 (12)	700 (11)				
Heptachlor	0.00072 ‡ (17)		0.01	0.01		0.4		zero	0.01 (11)				
Heptachlor epoxide	0.00072 ‡ (17)		0.01	0.01		0.2		zero	0.007 (11)				
Hexachlorobenzene	0.00021 ‡					1 (12)		zero (12)					
Hexachlorobutadiene	14 ‡												
Hexachlorocyclopentadiene	58					50 (12)	8 (11)	50 (12)					
Hexachloroethane	2.5 ‡												
Indeno(1,2,3-c,d)pyrene	0.0088 ‡ (2)					0.4 (11)		zero (11)					
Isophorone	150,000												
Methanes, halo-	130 ‡ (4)					100 (10)							
Methoxychlor			100	100		40		40					
Molinate			20	20					20 (11)				
Nitrobenzene	4.9												
2-Nitrophenol	30 (5)												
Nitrophenol	30 (5)												
4-Nitrophenol	30 (5)												

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	Ocean Waters (1) ‡ = carcinogen	Bays and Estuaries	Inland Surface Waters and Ground Waters		California Dept. of Health Services		US Environmental Protection Agency				Toxicity	Taste & Odor	
			Primary MCL	Secondary MCL	Primary MCL	Secondary MCL	MCL Goal						
N-Nitrosodimethylamine	7.3 ‡												
N-Nitrosodiphenylamine	2.5 ‡												
trans-Nonachlor	0.000023 ‡ (6)												
Oil & grease	25,000												
Oxychlorthane	0.000023 ‡ (6)												
PAHs	0.0088 ‡ (2)						see individual chemicals		see individual chemicals				
Pentachlorophenol	1 (7)						1		zero		30		
Phenanthrene	0.0088 ‡ (2)												
Phenol	30 (5)											5.0 (22)	
Phenols, chlorinated	1												
Phenols, nitro-	30 (5)												
Phenols, non-chlorinated	30												
Phthalate esters			see individual chemicals	see individual chemicals		see individual chemicals		see individual chemicals					
Phenanthrene	0.0088 ‡ (2)		1										
Phenazopyridine			1										
Phenazopyridine hydrochloride			1										
Phenesterin			1										
Phenobarbital			1										
Phenol	30 (5)		1									5.0 (22)	
Phenols, chlorinated	1		1										
Phenols, nitro-	30 (5)		1										
Phenols, non-chlorinated	30		1										
Phenoxybenzamine			1										
Phenoxybenzamine hydrochloride			1										
Phenyl glycidyl ether			1										
o-Phenylphenate, sodium			1										
Polychlorinated biphenyls	0.000019 ‡						0.5 (21)		zero (21)				
Pyrene	0.0088 ‡ (2)												
Resorcinol	30 (5)												
Simazine			10		10		4 (12)		4 (12)				
2,3,7,8-TCDD (Dioxin)	0.0000000039 ‡ (20)						0.00003 (12)		zero (12)				
1,1,2,2-Tetrachloroethane	1,200		1		1				1 (11)				
Tetrachloroethylene (PCE)	99 ‡		5		5		5		zero		0.7 (11)		
2,3,4,6-Tetrachlorophenol	1 (7)												
2,3,5,6-Tetrachlorophenol	1 (7)												
Thiobencarb			70	1	70	1					70 (11)		
Toluene	85,000						1,000	40 (11)	1,000		100	42 (18)	
Toxaphene	0.00021 ‡		5		5		3		zero				
2,4,5-TP (Silvex)			10		10		50		50				
Tributyltin	0.0014												
1,1,1-Trichloroethane	540,000		200		200		200		200		200 (11)		
1,1,2-Trichloroethane	43,000		32		32		5 (12)		3 (12)				
Trichloroethylene (TCE)	27 ‡		5		5		5		zero		2.5 (11)		
Trichlorofluoromethane			150		150						150 (11)		
2,4,5-Trichlorophenol	1 (7)												
2,4,6-Trichlorophenol	0.29 ‡												
1,1,2-Trichloro-1,2,2-trifluoroethane			1,200		1,200						1,200 (11)		
Trinitrophenol	30 (5)												
Vinyl chloride	36 ‡		0.5		0.5		2		zero		0.15 (11)		
Xylenes(s)			1,750		1,750		10,000	20 (11)	10,000		1,750 (11)		

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Organic Constituent	Health Advisories or Suggested No-Adverse Response Levels (SNARLS) for toxicity other than cancer risk	
	USEPA	National Academy of Sciences
Acenaphthylene		
Acenaphthylene		
Acrylonitrile	1 / 4 (7-yr,13,14)	
Aldrin	0.3 (10-day,14)	
Anthracene		
Atrazine	3	150
Bentazon	20	
Benz(a)anthracene		
Benzene	200 (10-day)	
Benzidine		
Benzo(b)fluoranthene		
Benzo(k)fluoranthene		
Benzo(g,h,i)perylene		
Benzo(a)pyrene		
alpha-BHC		500 (7-day,3)
beta-BHC		500 (7-day,3)
Gamma-BHC (Lindane)	0.2	500 (7-day,3)
delta-BHC		500 (7-day,3)
technical-BHC		500 (7-day)
Bis(2-chloroethoxy) methane		
Bis(2-chloroethyl) ether		
Bis(2-chloroisopropyl) ether	300	
Bromodichloromethane	400 / 1,300 (7-yr,13,14)	
Bromoform	2,000 (10-day)	
Bromomethane	10	
Carbofuran	40	
Carbon tetrachloride	200 (10-day)	200 (7-day)
Catechol		2,200 (24-hr)
Chlordane	60 (10-day)	
Chlorobenzene	100	
4-Chloro-m-cresol		
4-Chloro-o-cresol		
6-Chloro-m-cresol		
Chloroform	4,000 (10-day)	
Chloromethane	3	
2-Chlorophenol	40 (14)	
3-Chlorophenol		
4-Chlorophenol		
Chrysene		
2,4-D	70	87.5
DBCP	50 (10-day)	
DDD		
DDE		
DDT		
Dibenz(a,h)anthracene		
Dibromochloromethane	60 (14)	18,000 (24-hr)
Dibutyl phthalate		770
1,2-Dichlorobenzene	600	300 (15)
1,3-Dichlorobenzene	600	

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	USEPA	National Academy of Sciences
1,4-Dichlorobenzene	75	94 (15)
3,3'-Dichlorobenzidine		
1,1-Dichloroethane		
1,2-Dichloroethane	700 (10-day)	
1,1-Dichloroethylene	7	100
cis-1,2-Dichloroethylene	70	
trans-1,2-Dichloroethylene	100	
Dichloromethane	2,000 (10-day)	5000 (7-day)
2,3-Dichlorophenol		
2,4-Dichlorophenol	20	2000 / 7000 (13)
2,5-Dichlorophenol		
2,6-Dichlorophenol		
3,4-Dichlorophenol		
1,2-Dichloropropane	90 (10-day)	
1,3-Dichloropropene	30 (10-day)	
Dieldrin	0.5 (10-day)	
Di(2-ethylhexyl)phthalate		4,200
Diethyl phthalate	5,000	
2,4-Dimethylphenol		
Dimethyl phthalate		
4,6-Dinitro-o-cresol		
Dinitrophenol		110
2,4-Dinitrophenol		110
2,4-Dinitrotoluene	500 (10-day)	
1,2-Diphenylhydrazine		
Endosulfan		
Endosulfan sulfate		
Endrin	2	
Ethylbenzene	700	
Ethylene dibromide (EDB)	8 (10-day)	
Fluoranthene		
Fluorene		
Glyphosate	700	
Heptachlor	10 (10-day)	
Heptachlor epoxide	0.1 (7-yr)	
Hexachlorobenzene	50 (10-day)	30 (7-day)
Hexachlorobutadiene	1	
Hexachlorocyclopentadiene		
Hexachloroethane	1	
Indeno(1,2,3-c,d)pyrene		
Isophorone	100	
Methanes, halo-		
Methoxychlor	40	700
Molinate		
Nitrobenzene		5 (7-day)
2-Nitrophenol		290 (7-day,19)
Nitrophenol		290 (7-day)
4-Nitrophenol	60 (14)	290 (7-day,19)

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Organic Constituent	Health Advisories or Suggested No-Adverse Response Levels (SNARLS) for toxicity other than cancer risk	
	USEPA	National Academy of Sciences
N-Nitrosodimethylamine		
N-Nitrosodiphenylamine		
trans-Nonachlor		
Oil & grease		
Oxychlorodane		
PAHs	see individual chemicals	
Pentachlorophenol	300 (10-day)	6 / 21 (13)
Phenanthrene		
Phenol	4000	
Phenols, chlorinated		
Phenols, nitro-		
Phenols, non-chlorinated		
Phthalate esters	see individual chemicals	see individual chemicals
Phenanthrene		
Phenazopyridine		
Phenazopyridine hydrochloride		
Phenesterin		
Phenobarbital		
Phenol	4,000	
Phenols, chlorinated		
Phenols, nitro-		
Phenols, non-chlorinated		
Phenoxybenzamine		
Phenoxybenzamine hydrochloride		
Phenyl glycidyl ether		
o-Phenylphenate, sodium		
Polychlorinated biphenyls		50 (7-day)
Pyrene		
Resorcinol		500 (7-day)
Simazine	4	1,505
2,3,7,8-TCDD (Dioxin)	0.0001 (10-day)	0.0007
1,1,2,2-Tetrachloroethane		
Tetrachloroethylene (PCE)	2,000 (10-day)	
2,3,4,6-Tetrachlorophenol		
2,3,5,6-Tetrachlorophenol		
Thiobencarb		
Toluene	1,000	340
Toxaphene	40 (10-day)	8.75
2,4,5-TP (Silvex)	50	5.25
Tributyltin		
1,1,1-Trichloroethane	200	3800
1,1,2-Trichloroethane	3	
Trichloroethylene (TCE)		
Trichlorofluoromethane	2,000	8,000 (7-day)
2,4,5-Trichlorophenol		
2,4,6-Trichlorophenol		2,500 (7-day)
1,1,2-Trichloro-1,2,2-trifluoroethane		
Trinitrophenol		200 (7-day)
Vinyl chloride	3,000 (10-day)	
Xylenes(s)	10,000	

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Organic Constituent	USEPA Integrated Risk Information System (IRIS) Reference Dose as a Water Quality Criterion (23)	One-in-a-Million Incremental Cancer Risk Estimates for Drinking Water				California Proposition 65 Regulatory Level as a Water Quality Criterion	Agricultural Water Quality Goals (28)	USEPA National Ambient Water Quality Criteria						
		Cal/EPA Cancer Potency Factor as a Water Quality Criterion (23)	USEPA Integrated Risk Information System (IRIS)	USEPA Health Advisory or SNARL	National Academy of Sciences (NAS) Drinking Water and Health			Health and Welfare Protection			Freshwater Aquatic Life Protection			
								Non-Cancer Public Health Effects	One-in-a-Million Incremental Cancer Risk Estimate	Taste and Odor or Welfare	Recommended Criteria			
											Continuous Concentration (4-day Average)	24-hour Average	Maximum Concentration (1-hour Average)	
Acenaphthylene				(C)				320 / 780 (29)						
Acenaphthylene				(C)										
Acrylonitrile		0.035	0.07	0.07 (B1)	0.38	0.35			0.059 / 0.66 (29)					
Aldrin		0.0021	0.002	0.002 (B2,14)	0.003	0.02			0.00013 / 0.00014 (29)					
Anthracene	2,100			(D)				9,600 / 110,000 (29)						
Atrazine	3.5		0.14	(C)										
Bentazon	18			(D)										
Benz(a)anthracene				(B2)					0.0028 / 0.031 (32)					
Benzene		0.35	1	1.0 (A)		3.5			1.2 / 71 (29)					
Benzidine		0.00007		(A)		0.0005			0.00012 / 0.00054 (29)					
Benzo(b)fluoranthene				(B2)					0.0028 / 0.031 (32)					
Benzo(k)fluoranthene				(B2)					0.0028 / 0.31 (32)					
Benzo(g,h,i)perylene				(D)										
Benzo(a)pyrene		0.0029	0.003	(B2)		0.03			0.0028 / 0.031 (32)					
alpha-BHC					0.33	0.15			0.0039 / 0.013 (29)					
beta-BHC					0.12	0.25			0.014 / 0.046 (29)					
Gamma-BHC (Lindane)	0.2	0.032		0.03 (C)	0.054	0.3			0.019 / 0.063 (29)				0.08	
delta-BHC														
technical-BHC		0.0088				0.1			0.0123					
Bis(2-chloroethoxy) methane														
Bis(2-chloroethyl) ether		0.014			0.42	0.15			0.031 / 1.4 (29)					
Bis(2-chloroisopropyl) ether	280			(D)				1,400 / 170,000 (29)						
Bromodichloromethane		0.27	1.4	0.6 (B2,14)		2.5			0.27 / 22 (29)					
Bromoform			4	4 (B2,14)					4.3 / 360 (29)					
Bromomethane	7			(D)				48 / 4,000 (29)						
Carbofuran	35			(E)										
Carbon tetrachloride		0.23	0.3	0.3 (B2)	4.5	2.5			0.25 / 4.4 (29)					
Catechol														
Chlordane		0.029 / 0.027	0.03	0.03 (B2)	0.028	0.25			0.00057 / 0.00059 (29)				0.0043	
Chlorobenzene	140			(D)	2.3 (25)			680 / 21,000 (29)			20			
4-Chloro-m-cresol											3,000			
4-Chloro-o-cresol											1,800			
6-Chloro-m-cresol											20			
Chloroform		1.1 / 0.43	6	6.0 (B2,14)	0.26 / 5.6 (26)	10			5.7 / 470 (29)					
Chloromethane	2.8			(C)										
2-Chlorophenol	35			(D)							0.1			
3-Chlorophenol											0.1			
4-Chlorophenol											0.1			
Chrysene				(B2)					0.0028 / 0.31 (32)					
2,4-D	70			(D)				100						
DBCP		0.005	0.03	0.03 (B2)	0.051	0.05			0.025					
DDD		0.15				1 (8)			0.00083 / 0.00084 (29)					
DDE		0.1				1 (8)			0.00059 / 0.00059 (29)					
DDT		0.1	0.1	(B2)	0.042	1 (8)			0.00059 / 0.00059 (29)				0.0010	
Dibenz(a,h)anthracene				(B2)		0.1			0.0028 / 0.031 (32)					
Dibromochloromethane	14			(C)	0.6	3.5			0.41 / 34 (29)					
Dibutyl phthalate	700			(D)				2700 / 12,000 (29)						
1,2-Dichlorobenzene	620			(D)				2700 / 17,000 (29)						
1,3-Dichlorobenzene	620			(D)				400 / 2,600 (31)						

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		Cal/EPA Cancer Potency Factor as a Water Quality Criterion (23)	USEPA Integrated Risk Information System (IRIS)	USEPA Health Advisory or SNARL	National Academy of Sciences (NAS) Drinking Water and Health			Health and Welfare Protection			Freshwater Aquatic Life Protection Recommended Criteria			
								Non-Cancer Public Health Effects	One-in-a-Million Incremental Cancer Risk Estimate	Taste and Odor or Welfare	Continuous Concentration (4-day Average)	24-hour Average	Maximum Concentration (1-hour Average)	
1,4-Dichlorobenzene	70	0.88		(C)		10		400 / 2,600 (31)						
3,3'-Dichlorobenzidine		0.029				0.3				0.04 / 0.077 (29)				
1,1-Dichloroethane						50								
1,2-Dichloroethane		0.5	0.4	0.4 (B2)	0.71	5				0.38 / 99 (29)				
1,1-Dichloroethylene	6.3		0.06	0.06 (C)						0.057 / 3.2 (29)				
cis-1,2-Dichloroethylene	70			(D)										
trans-1,2-Dichloroethylene	140			(D)										
Dichloromethane		2.5	5	5 (B2)		25				4.7 / 1,600 (29)				
2,3-Dichlorophenol											0.04			
2,4-Dichlorophenol	21			(D)				93 / 790 (29)			0.3			
2,5-Dichlorophenol											0.5			
2,6-Dichlorophenol											0.2			
3,4-Dichlorophenol											0.3			
1,2-Dichloropropane		0.56	0.5	0.5 (B2)										
1,3-Dichloropropene		0.19	0.2	0.2 (B2)	0.45			10 / 1,700 (29)						
Dieldrin		0.0022	0.002	0.002 (B2)	0.0019	0.02				0.00014 / 0.00014 (29)			0.0019	
Di(2-ethylhexyl)phthalate		4.2	3	3 (B2)	2.4	40				1.8 / 5.9 (29)		360 (11)		400 (11)
Diethyl phthalate	5,600			(D)				23,000 / 120,000 (29)						
2,4-Dimethylphenol	140										400			
Dimethyl phthalate				(D)				313,000 / 2,900,000(29)						
4,6-Dinitro-o-cresol								13.4 / 765 (29)						
Dinitrophenol								70						
2,4-Dinitrophenol								70 / 14,000 (29)						
2,4-Dinitrotoluene		0.11	50	0.05 (B2)		1				0.11 / 9.1 (29)				
1,2-Diphenylhydrazine						0.4				0.040 / 0.54 (29)				
Endosulfan								0.93 / 2.0 (29)					0.056	
Endosulfan sulfate								0.93 / 2.0 (29)					0.056 (35)	
Endrin	2.1			(D)				0.76 / 0.81 (33,29)					0.0023	
Ethylbenzene	700			(D)				3,100 / 29,000 (29)						
Ethylene dibromide (EDB)		0.0097	0.0004	0.0004 (B2)	0.055	0.1								
Fluoranthene				(D)				300 / 370 (29)						
Fluorene	280			(D)				1,300 / 14,000 (29)						
Glyphosate	700			(D)										
Heptachlor		0.0061 / 0.0078	0.008	0.008 (B2)	0.012	0.1				0.00021 / 0.00021 (29)			0.0038	
Heptachlor epoxide		0.0027 / 0.0038	0.004	0.004 (B2)	0.017	0.04				0.00010 / 0.00011 (29)			0.0038	
Hexachlorobenzene		0.019		0.02 (B2)	0.017	0.2				0.00075 / 0.00077 (29)		3.68 (11)		6 (11)
Hexachlorobutadiene	1.4			(C)						0.44 / 50 (29)				
Hexachlorocyclopentadiene	49			(D)				240 / 17,000 (29)			1			
Hexachloroethane				(C)		10				1.9 / 8.9 (29)				
Indeno(1,2,3-c,d)pyrene				(B2)						0.0028 / 0.031 (32,29)				
Isophorone	140			40 (C)						8.4 / 600 (29)				
Methanes, halo-														
Methoxychlor	35			(D)				100						
Molinate	14													
Nitrobenzene								17 / 1,900 (29)			30			
2-Nitrophenol														
Nitrophenol														
4-Nitrophenol				(D)										

Table C-2. WATER QUALITY CRITERIA - ORGANIC CONSTITUENTS

Organic Constituent	USEPA Integrated Risk Information System (IRIS) Reference Dose as a Water Quality Criterion (23)	One-in-a-Million Incremental Cancer Risk Estimates for Drinking Water				California Proposition 65 Regulatory Level as a Water Quality Criterion	Agricultural Water Quality Goals (28)	USEPA National Ambient Water Quality Criteria					
		Cal/EPA Cancer Potency Factor as a Water Quality Criterion (23)	USEPA Integrated Risk Information System (IRIS)	USEPA Health Advisory or SNARL	National Academy of Sciences (NAS) Drinking Water and Health			Health and Welfare Protection			Freshwater Aquatic Life Protection Recommended Criteria		
								Non-Cancer Public Health Effects	One-in-a-Million Incremental Cancer Risk Estimate	Taste and Odor or Welfare	Continuous Concentration (4-day Average)	24-hour Average	Maximum Concentration (1-hour Average)
N-Nitrosodimethylamine		0.0022				0.02		0.00069 / 8.1 (29)					
N-Nitrosodiphenylamine		3.9				40		5.0 / 16 (29)					
trans-Nonachlor													
Oil & grease													
Oxychlorodane													
PAHs								0.0028 / 0.31 (29)					
Pentachlorophenol		1.9	0.3	0.3 (B2)		20		0.28 / 8.2 (29)	30	(34)		(36)	
Phenanthrene										6.3 (11)		30 (11)	
Phenol	4,200			(D)				21,000 / 4,600,000 (29)	300				
Phenols, chlorinated													
Phenols, nitro-													
Phenols, non-chlorinated													
Phthalate esters				see individual chemicals		see individual chemicals		see individual chemicals					
Phenanthrene										6.3 (11)		30 (11)	
Phenazopyridine						2							
Phenazopyridine hydrochloride						2.5							
Phenesterin						0.0025							
Phenobarbital						1							
Phenol	4,200			(D)				21,000 / 4,600,000 (29)	300				
Phenols, chlorinated													
Phenols, nitro-													
Phenols, non-chlorinated													
Phenoxybenzamine						0.1							
Phenoxybenzamine hydrochloride						0.15							
Phenyl glycidyl ether						2.5 (11)							
o-Phenylphenate, sodium						100							
Polychlorinated biphenyls		0.0045	0.005	0.005 (B2)	0.16 (37)	0.045		0.000044/0.000045(29)			0.014		
Pyrene	210 (14)			(D)				960 / 11,000 (29)					
Resorcinol													
Simazine	3.5			(C)									
2,3,7,8-TCDD (Dioxin)		0.00000027	0.0000002	0.0000002 (B2)		0.0000025		1.3E-8 / 1.4E-8 (29)					
1,1,2,2-Tetrachloroethane				(C)		1.5		0.17 / 11 (29)					
Tetrachloroethylene (PCE)		0.69	0.7	0.7 (B2)	3.6	7		0.8 / 8.85 (29)					
2,3,4,6-Tetrachlorophenol									1				
2,3,5,6-Tetrachlorophenol													
Thiobencarb													
Toluene	1,400			(D)		3,500 (38)		6,800 / 200,000 (29)					
Toxaphene		0.029	0.03	0.03 (B2)		0.3		0.00073 / 0.00075 (29)		0.0002		0.73	
2,4,5-TP (Silvex)	53			(D)				10					
Tributyltin													
1,1,1-Trichloroethane	250			(D)	17 (25)								
1,1,2-Trichloroethane	2.8		0.6	0.6 (C)		5		0.60 / 42 (29)					
Trichloroethylene (TCE)		2.3 (11)	3	3 (B2)	1.5 (25)	25		2.7 / 81 (29)					
Trichlorofluoromethane	2,100			(D)				0.19					
2,4,5-Trichlorophenol								2,600	1	63 (100)		100 (11)	
2,4,6-Trichlorophenol		0.5	3	3 (B2,14)		5		2.1 / 6.5 (29)	2				
1,1,2-Trichloro-1,2,2-trifluoroethane													
Trinitrophenol													
Vinyl chloride		0.13	0.015	0.015 (A)	1.1	1.5		2 / 525 (29)					
Xylenes(s)	14,000			(D)									

Table C-2. WATER QUALITY CRITERIA - ORGANIC CONSTITUENTS

Organic Constituent	USEPA Ambient Water Quality Criteria (cont.)				California Ocean Plan						USEPA National Ambient Water Quality Criteria				Additional Toxicity Information	
	Freshwater Aquatic Life Protection (cont.)				Numerical Water Quality Objectives						Saltwater Aquatic Life Protection					
	Recommended Criteria (cont.)				Human Health Protection (30-day Average)	Marine Aquatic Life Protection					Recommended Criteria					
	Maximum (Instantaneous)	Additional Toxicity Information				6-month Median	30-day Average	7-day Average	Daily Maximum	Instantaneous Maximum	Continuous Concentration (4-day Average)	24-hour Average	Maximum Concentration (1-hour Average)	Maximum (Instantaneous)		
Acenaphthylene					0.0088 ‡ (2)									300 (32)		
Acenaphthylene		68	21		220									55		
Acrylonitrile		7,550		2,600 (44)	0.10 ‡											
Aldrin	3				0.000022 ‡								1.3			
Anthracene					0.0088 ‡ (2)									300 (32)		
Atrazine	1.0 (30)															
Bentazon																
Benz(a)anthracene					0.0088 ‡ (2)									300 (32)		
Benzene		5,300			5.9 ‡									5,100		
Benzidine		2,500			0.000069 ‡											
Benzo(b)fluoranthene					0.0088 ‡ (2)									300 (32)		
Benzo(k)fluoranthene					0.0088 ‡ (2)									300 (32)		
Benzo(g,h,i)perylene					0.0088 ‡ (2)									300 (32)		
Benzo(a)pyrene					0.0088 ‡ (2)									300 (32)		
alpha-BHC						0.004 (3)			0.008 (3)	0.012 (3)						
beta-BHC						0.004 (3)			0.008 (3)	0.012 (3)						
Gamma-BHC (Lindane)	2.0					0.004 (3)			0.008 (3)	0.012 (3)			0.16			
delta-BHC						0.004 (3)			0.008 (3)	0.012 (3)						
technical-BHC		100				0.004 (3)			0.008 (3)	0.012 (3)				0.34		
Bis(2-chloroethoxy) methane					4.4											
Bis(2-chloroethyl) ether					0.045 ‡											
Bis(2-chloroisopropyl) ether		238,000 (39)	122 (43)		1200											
Bromodichloromethane		11,000 (40)			130 ‡ (4)									12,000 (40)	6,400 (40)	
Bromoform		11,000 (40)			130 ‡ (4)									12,000 (40)	6,400 (40)	
Bromomethane		11,000 (40)			130 ‡ (4)									12,000 (40)	6,400 (40)	
Carbofuran																
Carbon tetrachloride		35,200			0.90 ‡									50,000	6,400 (40)	
Catechol							30 (5)		120 (5)	300 (5)						
Chlordane	2.4				0.000023 ‡ (6)								0.004	0.09		
Chlorobenzene		250 (41)	50 (41,45)		570									160 (41)	129 (41)	
4-Chloro-m-cresol		30					1 (7)		4 (7)	10 (7)						
4-Chloro-o-cresol							1 (7)		4 (7)	10 (7)						
6-Chloro-m-cresol							1 (7)		4 (7)	10 (7)						
Chloroform		28,900	1,240		130 ‡									12,000 (40)	6,400 (40)	
Chloromethane		11,000 (40)			130 ‡ (4)									12,000 (40)	6,400 (40)	
2-Chlorophenol		4,380		2,000 (46)			1 (7)		4 (7)	10 (7)						
3-Chlorophenol							1 (7)		4 (7)	10 (7)						
4-Chlorophenol							1 (7)		4 (7)	10 (7)				29,700		
Chrysene					0.0088 ‡ (2)									300 (32)		
2,4-D																
DBCP																
DDD		0.6			0.00017 ‡ (8)									3.6		
DDE		1,050			0.00017 ‡ (8)									14		
DDT	1.1				0.00017 ‡ (8)						0.001		0.13			
Dibenz(a,h)anthracene					0.0088 ‡ (2)									300 (32)		
Dibromochloromethane		11,000 (40)			130 ‡ (4)									12,000 (40)	6,400 (40)	
Dibutyl phthalate		940 (42)	3 (42)		3,500									2,944 (42)		
1,2-Dichlorobenzene		1,120 (31)	763 (31)		5,100 (9)									1,970 (31)	129 (41)	
1,3-Dichlorobenzene		1,120 (31)	763 (31)		5,100 (9)									1,970 (31)	129 (41)	

Table C-2. WATER QUALITY CRITERIA - ORGANIC CONSTITUENTS

Organic Constituent	USEPA Ambient Water Quality Criteria (cont.)				California Ocean Plan						USEPA National Ambient Water Quality Criteria				Additional Toxicity Information	
	Freshwater Aquatic Life Protection (cont.)				Numerical Water Quality Objectives						Saltwater Aquatic Life Protection					
	Recommended Criteria (cont.)				Human Health Protection (30-day Average) "‡" = carcinogen	Marine Aquatic Life Protection					Recommended Criteria					
	Maximum (Instantaneous)	Additional Toxicity Information				6-month Median	30-day Average	7-day Average	Daily Maximum	Instantaneous Maximum	Continuous Concentration (4-day Average)	24-hour Average	Maximum Concentration (1-hour Average)	Maximum (Instantaneous)		
Acute					Chronic										Other	Acute
1,4-Dichlorobenzene		1,120 (31)	763 (31)		18 ‡									1,970 (31)	129 (41)	
3,3'-Dichlorobenzidine					0.0081 ‡											
1,1-Dichloroethane																
1,2-Dichloroethane		118,000	20,000		130 ‡									113,000		
1,1-Dichloroethylene		11,600 (50)			7100									224,000 (50)		
cis-1,2-Dichloroethylene		11,600 (50)												224,000 (50)		
trans-1,2-Dichloroethylene		11,600 (50)												224,000 (50)		
Dichloromethane		11,600 (50)			450 ‡									12,000 (40)	6,400 (40)	
2,3-Dichlorophenol						1 (7)		4 (7)	10 (7)							
2,4-Dichlorophenol		2,020	365	70 (56)		1 (7)		4 (7)	10 (7)							
2,5-Dichlorophenol						1 (7)		4 (7)	10 (7)							
2,6-Dichlorophenol						1 (7)		4 (7)	10 (7)							
3,4-Dichlorophenol						1 (7)		4 (7)	10 (7)							
1,2-Dichloropropane		23,000 (51)	5,700 (51)											10,300 (51)	3,040 (51)	
1,3-Dichloropropene		6,060 (52)	244 (52)		8.9 ‡									790 (52)		
Dieldrin	2.5				0.000040 ‡						0.0019		0.71			
Di(2-ethylhexyl)phthalate		940 (42)	3 (42)		3.5 ‡					360 (11)		400 (11)		2,944 (42)		
Diethyl phthalate		940 (42)	3 (42)		33,000									2,944 (42)		
2,4-Dimethylphenol		2120				30 (5)		120 (5)	300 (5)							
Dimethyl phthalate		940 (42)	3 (42)		820,000									2,944 (42)		
4,6-Dinitro-o-cresol		230 (53)		150 (49,53)	220	30 (5)		120 (5)	300 (5)					4,850 (53)		
Dinitrophenol		230 (53)		150 (49,53)		30 (5)		120 (5)	300 (5)					4,850 (53)		
2,4-Dinitrophenol		230 (53)		150 (49,53)	4	30 (5)		120 (5)	300 (5)					4,850 (53)		
2,4-Dinitrotoluene		330 (54)	230 (54)		2.6 ‡									590 (54)		
1,2-Diphenylhydrazine		270 (9)			0.16 ‡											
Endosulfan	0.22					9 (16)		18 (16)	27 (16)		0.0087		0.034			
Endosulfan sulfate						9 (16)		18 (16)	27 (16)		0.0087 (35)					
Endrin	0.18					0.002		0.004	0.006		0.0023		0.037			
Ethylbenzene		32,000			4100									430		
Ethylene dibromide (EDB)														40	16	
Fluoranthene		3,980			15									300 (32)		
Fluorene					0.0088 ‡ (2)											
Glyphosate																
Heptachlor	0.52				0.00072 ‡ (17)						0.0036		0.053			
Heptachlor epoxide	0.52				0.00072 ‡ (17)						0.0036		0.053			
Hexachlorobenzene		250 (41)		50 (41,45)	0.00021 ‡									160 (41)	129 (41)	
Hexachlorobutadiene		90	9.3		14 ‡									32		
Hexachlorocyclopentadiene		7.0	5.2		58									7		
Hexachloroethane		980	540		2.5 ‡									940		
Indeno(1,2,3-c,d)pyrene					0.0088 ‡ (2)									300 (32)		
Isophorone		117,000			150,000									12,900		
Methanes, halo-		11,000			130 ‡ (4)									12,000	6,400	
Methoxychlor	0.03												0.03			
Molinate																
Nitrobenzene		27,000			4.9									6,680		
2-Nitrophenol		230 (53)		150 (49,53)		30 (5)		120 (5)	300 (5)					4,850 (53)		
Nitrophenol		230 (53)		150 (49,53)		30 (5)		120 (5)	300 (5)					4,850 (53)		
4-Nitrophenol		230 (53)		150 (49,53)		30 (5)		120 (5)	300 (5)					4,850 (53)		

Table C-2. WATER QUALITY CRITERIA - ORGANIC CONSTITUENTS

Organic Constituent	USEPA Ambient Water Quality Criteria (cont.)			California Ocean Plan						USEPA National Ambient Water Quality Criteria				Additional Toxicity Information	
	Freshwater Aquatic Life Protection (cont.)			Numerical Water Quality Objectives						Saltwater Aquatic Life Protection					
	Recommended Criteria (cont.)			Human Health Protection (30-day Average)	Marine Aquatic Life Protection					Recommended Criteria					
	Maximum (Instantaneous)	Additional Toxicity Information			6-month Median	30-day Average	7-day Average	Daily Maximum	Instantaneous Maximum	Continuous Concentration (4-day Average)	24-hour Average	Maximum Concentration (1-hour Average)	Maximum (Instantaneous)		
Acute		Chronic	Other	Acute										Chronic	
N-Nitrosodimethylamine		5,850 (55)		7.3 ‡										3,300,000 (55)	
N-Nitrosodiphenylamine		5,850 (55)		2.5 ‡										3,300,000 (55)	
trans-Nonachlor				0.000023 ‡ (6)											
Oil & grease					25,000	40,000		75,000							
Oxychlorthane				0.000023 ‡ (6)											
PAHs				0.0088 ‡ (2)										300	
Pentachlorophenol			1.74 (57)		1 (7)		4 (7)	10 (7)	7.9		13				
Phenanthrene				0.0088 ‡ (2)					4.6 (11)		7.7 (11)			300 (32)	
Phenol	10,200	2,560			30 (5)		120 (5)	300 (5)						5,800	
Phenols, chlorinated					1		4	10							
Phenols, nitro-	230		150 (49)		30 (5)		120 (5)	300 (5)						4,850	
Phenols, non-chlorinated					30		120	300							
Phthalate esters	940	3												2,944	
Phenanthrene				0.0088 ‡ (2)					4.6 (11)		7.7 (11)			300 (32)	
Phenazopyridine															
Phenazopyridine hydrochloride															
Phenesterin															
Phenobarbital															
Phenol	10,200	2,560			30 (5)		120 (5)	300 (5)						5,800	
Phenols, chlorinated					1		4	10							
Phenols, nitro-	230		150 (49)		30 (5)		120 (5)	300 (5)						4,850	
Phenols, non-chlorinated					30		120	300							
Phenoxybenzamine															
Phenoxybenzamine hydrochloride															
Phenyl glycidyl ether															
o-Phenylphenate, sodium															
Polychlorinated biphenyls	> 2			0.000019 ‡							0.03			> 10	
Pyrene				0.0088 ‡ (2)										300 (32)	
Resorcinol					30 (5)		120 (5)	300 (5)							
Simazine	10 (58)														
2,3,7,8-TCDD (Dioxin)				0.0000000039 ‡ (20)											
1,1,2,2-Tetrachloroethane	9,320 (59)	2,400		1,200										9,020	
Tetrachloroethylene (PCE)	5,280	840		99 ‡										10,200	450
2,3,4,6-Tetrachlorophenol					1 (7)		4 (7)	10 (7)							
2,3,5,6-Tetrachlorophenol					1 (7)		4 (7)	10 (7)						440	
Thiobencarb															
Toluene	17,000			85,000										6,300	5,000
Toxaphene				0.00021 ‡					0.0002		0.21				
2,4,5-TP (Silvex)															
Tributyltin	0.026 (30)			0.0014								0.010 (30)			
1,1,1-Trichloroethane	18,000		200 (60)	540,000										31,200	
1,1,2-Trichloroethane	18,000	9,400		43,000											
Trichloroethylene (TCE)	45,000		21,900 (61)	27 ‡										2,000	
Trichlorofluoromethane	11,000 (40)													12,000 (40)	6,400 (40)
2,4,5-Trichlorophenol					1 (7)		4 (7)	10 (7)	11 (11)		240 (11)				
2,4,6-Trichlorophenol		970		0.29 ‡	1 (7)		4 (7)	10 (7)							
1,1,2-Trichloro-1,2,2-trifluoroethane															
Trinitrophenol	230 (53)		150 (49,53)		30 (5)		120 (5)	300 (5)						4,850 (53)	
Vinyl chloride				36 ‡											
Xylenes(s)															

Table C-2. WATER QUALITY CRITERIA - ORGANIC CONSTITUENTS

Organic Constituent	
	tion
	Other
Acenaphthylene	
Acenaphthylene	
Acrylonitrile	
Aldrin	
Anthracene	
Atrazine	
Bentazon	
Benz(a)anthracene	
Benzene	700 (47)
Benzidine	
Benzo(b)fluoranthene	
Benzo(k)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(a)pyrene	
alpha-BHC	
beta-BHC	
Gamma-BHC (Lindane)	
delta-BHC	
technical-BHC	
Bis(2-chloroethoxy) methane	
Bis(2-chloroethyl) ether	
Bis(2-chloroisopropyl) ether	
Bromodichloromethane	11,500 (40,48)
Bromoform	11,500 (40,48)
Bromomethane	11,500 (40,48)
Carbofuran	
Carbon tetrachloride	11,500 (40,48)
Catechol	
Chlordane	
Chlorobenzene	
4-Chloro-m-cresol	
4-Chloro-o-cresol	
6-Chloro-m-cresol	
Chloroform	11,500 (40,48)
Chloromethane	11,500 (40,48)
2-Chlorophenol	
3-Chlorophenol	
4-Chlorophenol	
Chrysene	
2,4-D	
DBCP	
DDD	
DDE	
DDT	
Dibenz(a,h)anthracene	
Dibromochloromethane	11,500 (40,48)
Dibutyl phthalate	3.4 (49,42)
1,2-Dichlorobenzene	
1,3-Dichlorobenzene	

Table C-2. WATER QUALITY CRITERIA - ORGANIC CONSTITUENTS

Organic Constituent	tion
	Other
1,4-Dichlorobenzene	
3,3'-Dichlorobenzidine	
1,1-Dichloroethane	
1,2-Dichloroethane	
1,1-Dichloroethylene	
cis-1,2-Dichloroethylene	
trans-1,2-Dichloroethylene	
Dichloromethane	11,500 (40,48)
2,3-Dichlorophenol	
2,4-Dichlorophenol	
2,5-Dichlorophenol	
2,6-Dichlorophenol	
3,4-Dichlorophenol	
1,2-Dichloropropane	
1,3-Dichloropropene	
Dieldrin	
Di(2-ethylhexyl)phthalate	3.4 (49,42)
Diethyl phthalate	3.4 (49,42)
2,4-Dimethylphenol	
Dimethyl phthalate	3.4 (49,42)
4,6-Dinitro-o-cresol	
Dinitrophenol	
2,4-Dinitrophenol	
2,4-Dinitrotoluene	370 (54,48)
1,2-Diphenylhydrazine	
Endosulfan	
Endosulfan sulfate	
Endrin	
Ethylbenzene	
Ethylene dibromide (EDB)	
Fluoranthene	
Fluorene	
Glyphosate	
Heptachlor	
Heptachlor epoxide	
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Indeno(1,2,3-c,d)pyrene	
Isophorone	
Methanes, halo-	11,500 (48)
Methoxychlor	
Molinate	
Nitrobenzene	
2-Nitrophenol	
Nitrophenol	
4-Nitrophenol	

Table C-2. WATER QUALITY CRITERIA - ORGANIC CONSTITUENTS

Organic Constituent	
	tion
	Other
N-Nitrosodimethylamine	
N-Nitrosodiphenylamine	
trans-Nonachlor	
Oil & grease	
Oxychlorane	
PAHs	
Pentachlorophenol	
Phenanthrene	
Phenol	
Phenols, chlorinated	
Phenols, nitro-	
Phenols, non-chlorinated	
Phthalate esters	3.4 (49,42)
Phenanthrene	
Phenazopyridine	
Phenazopyridine hydrochloride	
Phenesterin	
Phenobarbital	
Phenol	
Phenols, chlorinated	
Phenols, nitro-	
Phenols, non-chlorinated	
Phenoxybenzamine	
Phenoxybenzamine hydrochloride	
Phenyl glycidyl ether	
o-Phenylphenate, sodium	
Polychlorinated biphenyls	
Pyrene	
Resorcinol	
Simazine	
2,3,7,8-TCDD (Dioxin)	
1,1,2,2-Tetrachloroethane	
Tetrachloroethylene (PCE)	
2,3,4,6-Tetrachlorophenol	
2,3,5,6-Tetrachlorophenol	
Thiobencarb	
Toluene	
Toxaphene	
2,4,5-TP (Silvex)	
Tributyltin	
1,1,1-Trichloroethane	
1,1,2-Trichloroethane	
Trichloroethylene (TCE)	
Trichlorofluoromethane	11,500 (40,48)
2,4,5-Trichlorophenol	
2,4,6-Trichlorophenol	
1,1,2-Trichloro-1,2,2-trifluoroethane	
Trinitrophenol	
Vinyl chloride	
Xylene(s)	