

**EPA Region III BTAG
MARINE SCREENING BENCHMARKS
7/2006**

CAS#	Analyte	Screening Value (ug/l)	Ref	End Note	Bioaccumulative ⁹ - B	
					Class of Compound	
71-55-6	1,1,1-Trichloroethane	312	a	1	Volatile	
79-34-5	1,1,2,2-Tetrachloroethane	90.2	a	1	Volatile	
127-18-4	1,1,2,2-Tetrachloroethylene (PCE)	45	a		Volatile	
79-00-5	1,1,2-Trichloroethane	550	b	2	Volatile	
79-01-6	1,1,2-Trichloroethene (TCE)			3		
92-52-4	1,1-Biphenyl			3	PAH	
75-34-3	1,1-Dichloroethane			3	Volatile	
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2240	a	1	Volatile	
75-35-4	1,1-Dichloroethylene	2240	a	1	Volatile	
634-66-2	1,2,3,4-Tetrachlorobenzene			3	Other Semi-Volatile	B
87-61-6	1,2,3-Trichlorobenzene			3	Other Semi-Volatile	
95-94-3	1,2,4,5-Tetrachlorobenzene	129	a		Other Semi-Volatile	B
120-82-1	1,2,4-Trichlorobenzene	5.4	c	4	Volatile	B
95-63-6	1,2,4-Trimethylbenzene	19	d	5	Volatile	B
95-50-1	1,2-Dichlorobenzene	42	c	4	Volatile	B
107-06-2	1,2-Dichloroethane	1130	a	1	Volatile	
540-59-0	1,2-Dichloroethene (1,2-Dichloroethylene)	680	b		Volatile	
540-59-0	1,2-Dichloroethylene	680	b		Volatile	
78-87-5	1,2-Dichloropropane	2400	a	1	Volatile	
156-60-5	1,2-Trans-Dichloroethylene			3	Volatile	
108-67-8	1,3,5-Trimethylbenzene			3	Volatile	
541-73-1	1,3-Dichlorobenzene	28.5	a	1	Volatile	B
542-75-6	1,3-Dichloropropene (1,3-Dichloropropylene)	7.9	a	1	Volatile	
542-75-6	1,3-Dichloropropylene	7.9	a	1	Volatile	
106-46-7	1,4-Dichlorobenzene	19.9	a	1	Volatile	B
99-08-1	1-Methyl-3-nitrobenzene			3	Other Semi-Volatile	
99-99-0	1-Methyl-4-nitrobenzene (4-Nitrotoluene)			3	Other Semi-Volatile	
90-12-0	1-Methylnaphthalene			3	PAH	
71-41-0	1-Pentanol			3	Volatile	
10222-01-2	2,2-Dibromo-3-nitrilopropionamide			3	Other Semi-Volatile	
58-90-2	2,3,4,6-Tetrachlorophenol			3	Other Semi-Volatile	
1746-01-6	2,3,7,8-TCDD-Dioxin			3	Dioxin/Furans	B
51207-31-9	2,3,7,8-TCDF			3	Dioxin/Furans	B
93-72-1	2,4,5-TP (Silvex)			3	Volatile	
95-95-4	2,4,5-Trichlorophenol	12	b	6	Other Semi-Volatile	
93-76-5	2,4,5-Trichlorophenoxyacetic acid			3	Phenoxyaceticacid Herbicide	
88-06-2	2,4,6-Trichlorophenol	61	b	2	Other Semi-Volatile	
118-96-7	2,4,6-Trinitrotoluene (TNT)	100	b	2	Other Semi-Volatile	
120-83-2	2,4-Dichlorophenol			3	Other Semi-Volatile	
51-28-5	2,4-Dinitrophenol	48.5	a	1	Phenoxyaceticacid Herbicide	
121-14-2	2,4-Dinitrotoluene			3	Other Semi-Volatile	
606-20-2	2,6-Dinitrotoluene			3	Other Semi-Volatile	
35572-78-2	2-Amino-4,6-dinitrotoluene			3	Other Semi-Volatile	
78-93-3	2-Butanone			3	Volatile	
95-57-8	2-Chlorophenol	265	b	2	Other Semi-Volatile	
591-78-6	2-Hexanone			3	Volatile	
91-57-6	2-Methylnaphthalene	4.2	d	5	PAH	

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95-48-7	2-Methylphenol	1020	b	2	Other Semi-Volatile	
88-75-5	2-Nitrophenol	2940	b	2	Other Semi-Volatile	
111-13-7	2-Octanone			3	Other Semi-Volatile	
67-63-0	2-Propanol			3	Volatile	
91-94-1	3,3'- Dichlorobenzidine	73	b	2	Other Semi-Volatile	
99-08-1	3-Nitrotoluene (1-Methyl-3-nitrobenzene)			3	Other Semi-Volatile	
106-68-3	3-Octanone			3	Volatile	
101-55-3	4-Bromophenyl phenyl ether			3	Other Semi-Volatile	B
106-47-8	4-Chloroaniline			3	Other Semi-Volatile	
7005-72-3	4-Chlorophenyl- phenyl ether				Other Semi-Volatile	B
99-87-6	4-Isopropyltoluene (Cymene)			3	Other Semi-Volatile	
108-10-1	4-Methyl-2-pentanone	123000	b	2	Volatile	
106-44-5	4-Methylphenol			3	Other Semi-Volatile	
100-02-7	4-Nitrophenol	71.7	a	1	Other Semi-Volatile	
99-99-0	4-Nitrotoluene			3	Other Semi-Volatile	
83-32-9	Acenaphthene	6.6	d	5	PAH	B
208-96-8	Acenaphthylene				PAH	B
67-64-1	Acetone	564000	b	2	Volatile	
75-05-8	Acetonitrile			3	Volatile	
107-02-8	Acrolein	0.55	a	1	Volatile	
107-13-1	Acrylonitrile	581	b	2	Volatile	
309-00-2	Aldrin	0.13	a	1	Organochlorine Pesticide	B
7429-90-5	Aluminum			3	Inorganic/Metal	
7664-41-7	Ammonia (un-ionized)	5	a		Inorganic	
62-53-3	Aniline			3	Other Semi-Volatile	
120-12-7	Anthracene	0.18	b	2	PAH	B
7440-36-0	Antimony	500	b	2	Inorganic/Metal	
140-57-8	Aramite			3	Other Semi-Volatile	
12674-11-2	Aroclor 1016			3	Other Pesticide/PCB	B
11104-28-2	Aroclor 1221			3	Other Pesticide/PCB	B
11141-16-5	Aroclor 1232			3	Other Pesticide/PCB	B
53469-21-9	Aroclor 1242			3	Other Pesticide/PCB	B
12672-29-6	Aroclor 1248			3	Other Pesticide/PCB	B
11097-69-1	Aroclor 1254			3	Other Pesticide/PCB	B
11096-82-5	Aroclor 1260			3	Other Pesticide/PCB	B
7440-38-2	Arsenic	12.5	c	4	Inorganic/Metal	B
22569-72-8	Arsenic III			3	Inorganic/Metal	
17428-41-0	Arsenic V			3	Inorganic/Metal	
1912-24-9	Atrazine			3	Triazine Herculicide	
86-50-0	Azinophosmethyl (Guthion)	0.01	e		Organophosphorus Pesticide	
7440-39-3	Barium			3	Inorganic/Metal	
71-43-2	Benzene	110	c	4	Volatile	
92-87-5	Benzidine			3	Other Semi-Volatile	
56-55-3	Benzo(a)anthracene			3	PAH	B
50-32-8	Benzo(a)pyrene			3	PAH	B
205-99-2	Benzo(b)fluoranthene				PAH	B
191-24-2	Benzo(g,h,i)perylene				PAH	B

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207-08-9	Benzo(k)fluoranthene				PAH	B
65-85-0	Benzoic Acid			3	Other Semi-Volatile	
100-51-6	Benzyl alcohol			3	Other Semi-Volatile	
7440-41-7	Beryllium			3	Inorganic/Metal	
	BHC (non Lindane)			3	Organochlorine Pesticide	
319-84-6	BHC, alpha	25	b	2	Organochlorine Pesticide	B
319-85-7	BHC, beta				Organochlorine Pesticide	B
319-86-8	BHC, delta			3	Organochlorine Pesticide	B
58-89-9	BHC, gamma (Lindane)	0.016	a	1	Organochlorine Pesticide	B
92-52-4	Biphenyl (1,1-Biphenyl)			3	Other Semi-Volatile	
117-81-7	bis (2-ethylhexyl) phthalate			3	Other Semi-Volatile	
7440-42-8	Boron	1000	d	5	Inorganic/Metal	
75-25-2	Bromoform	640	a		Volatile	
74-83-9	Bromomethane	120	a	1	Volatile	
85-68-7	Butyl benzyl phthalate	29.4	a	1	Other Semi-Volatile	
7440-43-9	Cadmium	0.12	c	4	Inorganic/Metal	B
7440-70-2	Calcium			3	Inorganic/Metal	
63-25-2	Carbaryl (Sevin)	0.32	c	4	Other Pesticide/PCB	
1563-66-2	Carbofuran			3	N-Methylcarbamate herbicide	
75-15-0	Carbon disulfide			3	Volatile	
56-23-5	Carbon tetrachloride	1500	a	1	Volatile	
57-74-9	Chlordane			3	Organochlorine Pesticide	B
16887-00-6	Chloride			3	Inorganic/Metal	
7782-50-5	Chlorine (TRC)	7.5	e		Inorganic/Metal	
108-90-7	Chlorobenzene	25	c	4	Volatile	
510-15-6	Chlorobenzilate			3	Other Pesticide/PCB	
67-66-3	Chloroform	815	a	1	Volatile	
74-87-3	Chloromethane	2700	a	1	Volatile	
2921-88-2	Chloropyrifos	0.0056	e		Organophosphorus Pesticide	B
16065-83-1	Chromium III	56	c	4	Inorganic/Metal	
7440-47-3	Chromium Total	57.5			Inorganic/Metal	
18540-29-9	Chromium VI	1.5	c	4	Inorganic/Metal	B
218-01-9	Chrysene				PAH	B
7440-48-4	Cobalt			3	Inorganic/Metal	
7440-50-8	Copper	3.1	e		Inorganic/Metal	B
98-82-8	Cumene			3	Volatile	
57-12-5	Cyanide, free	1	e		Inorganic/Metal	
99-87-6	Cymene			3	Volatile	
72-54-8	DDD (p,p')	0.025	a	1	Organochlorine Pesticide	B
72-55-9	DDE	0.14	a	1	Organochlorine Pesticide	B
50-29-3	DDT (4,4' DDT)	0.0065	e	7	Organochlorine Pesticide	B
	DDT (op + pp)				Organochlorine Pesticide	B
	DDT, Total				Organochlorine Pesticide	B
	DDT/DDE/DDD (total)				Organochlorine Pesticide	B
124-18-5	Decane			3	Other Semi-Volatile	
8065-48-3	Demeton	0.1	e		Other Semi-Volatile	
117-81-7	Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl) phthalate)			3	Other Semi-Volatile	

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333-41-5	Diazinon			3	Other Pesticide/PCB	B
53-70-3	Dibenzo(a,h)anthracene			3	PAH	B
132-64-9	Dibenzofuran	65	b	2	Other Semi-Volatile	
3252-43-5	Dibromoacetonitrile			3	Other Semi-Volatile	
25321-22-6	Dichlorobenzene (mixed isomers)			3	Volatile	
75-09-2	Dichloromethane	2560	a		Volatile	
SEQ NO-35-8	Dichlorophenols, total			3	Other Semi-Volatile	
542-75-6	Dichloropropene (1,3-Dichloropropylene)			3	Volatile	
115-32-2	Dicofol (Kelthane)				Other Pesticide/PCB	B
60-57-1	Dieldrin	0.11	f	8	Organochlorine Pesticide	B
84-66-2	Diethylphthalate	75.9	a	1	Other Semi-Volatile	
60-51-5	Dimethoate			3	Other Pesticide/PCB	
131-11-3	Dimethyl phthalate	580	a	1	Other Semi-Volatile	
84-74-2	Di-n-butyl phthalate	3.4	a	9	Other Semi-Volatile	
51-28-5	Dinitrophenol (2,4-Dinitrophenol)	48.5	a	1	Other Semi-Volatile	
117-84-0	Di-n-octyl phthalate			3	Other Semi-Volatile	
88-85-7	Dinoseb			3	Other Pesticide/PCB	
117-84-0	Diocetylphthalate (Di-n-octyl phthalate)			3	Other Semi-Volatile	
298-04-4	Disulfoton				Pesticide	B
27176-87-0	Dodecyl benzenesulfonic acid	58	b	2	Other Semi-Volatile	
115-29-7	Endosulfan (alpha and beta)	0.001	d	5	Organochlorine Pesticide	B
959-98-8	Endosulfan I (a-endosulfan)			3	Organochlorine Pesticide	B
33213-65-9	Endosulfan II (b-endosulfan)			3	Organochlorine Pesticide	B
1031-07-8	Endosulfan sulfate	0.009	b	6	Organochlorine Pesticide	
72-20-8	Endrin	0.01	f	8	Organochlorine Pesticide	B
100-41-4	Ethylbenzene	25	c	4	Volatile	
107-06-2	Ethylene dichloride (1,2-Dichloroethane)	1130	a	1	Volatile	
107-21-1	Ethylene glycol			3	Other Semi-Volatile	
206-44-0	Fluoranthene	1.6	a		PAH	B
86-73-7	Fluorene	2.5	d	5	PAH	B
16984-48-8	Fluoride			3	Inorganic	
7782-41-4	Fluorine			3	Inorganic	
86-50-0	Guthion	0.01	e		Other Pesticide/PCB	
319-84-6	HCH, a- (BHC, alpha)	25	b		Organochlorine Pesticide	
319-86-8	HCH, d- (BHC, delta)			3	Organochlorine Pesticide	
58-89-9	HCH, gamma (Lindane) (BHC, gamma)	0.016	a	1	Organochlorine Pesticide	
76-44-8	Heptachlor			3	Organochlorine Pesticide	B
	Heptachlor & Heptachlor epoxide				Organochlorine Pesticide	B
1024-57-3	Heptachlor epoxide			3	Organochlorine Pesticide	B
118-74-1	Hexachlorobenzene			3	Other Semi-Volatile	B
87-68-3	Hexachlorobutadiene	0.3	d	5	Volatile	B
608-73-1	Hexachlorocyclohexanes (HCH, BHC)			3	Organochlorine Pesticide	B
77-47-4	Hexachlorocyclopentadiene	0.07	d	5	Organochlorine Pesticide	B
67-72-1	Hexachloroethane	9.4	a	1	Volatile	B
110-54-3	Hexane			3	Volatile	
2691-41-0	HMX (Octogen)			3	Other Pesticide/PCB	
302-01-2	Hydrazine			3	Volatile	

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123-31-9	Hydroquinone			3	Other Semi-Volatile	
193-39-5	Indeno(1,2,3-c,d)pyrene			3	PAH	B
7439-89-6	Iron			3	Inorganic/Metal	
29761-21-5	Isodecyl diphenyl phosphate			3	Other Semi-Volatile	
78-59-1	Isophorone	129	a	1	Other Semi-Volatile	
98-82-8	Isopropylbenzene (Cumene)			3		
	Isothiazolones, total			3	Other Semi-Volatile	
7439-92-1	Lead	8.1	e		Inorganic/Metal	B
58-89-9	Lindane (BHC,gamma)	0.016	a	1	Organochlorine Pesticide	
	Linear alkyl benzene sulfates (LAS)			3	Other Semi-Volatile	
7439-93-2	Lithium			3	Inorganic/Metal	
7439-95-4	Magnesium			3	Inorganic/Metal	
121-75-5	Malathion	0.1	e		Other Pesticide/PCB	
7439-96-5	Manganese			3	Inorganic/Metal	
7439-97-6	Mercury	0.016	c	4	Inorganic/Metal	
72-43-5	Methoxychlor	0.03	e		Organochlorine Pesticide	B
74-83-9	Methyl bromide	120	a	1	Volatile	
74-87-3	Methyl chloride (Chloromethane)	2700	a	1	Volatile	
78-93-3	Methyl ethyl ketone (2-Butanone)			3	Volatile	
111-13-7	Methyl hexyl ketone (2-Octanone)			3	Volatile	
108-10-1	Methyl isobutyl ketone (4-Methyl-2-pentanone)			3	Volatile	
80-62-6	Methyl methacrylate			3	Volatile	
1634-04-4	Methyl tert-butyl ether (MTBE)			3	Other Semi-Volatile	
6317-18-6	Methylene bistiocyanate			3	Other Semi-Volatile	
75-09-2	Methylene chloride (Dichloromethane)	2560	a	1	Volatile	
22967-92-6	Methylmercury			3	Volatile	B
2385-85-5	Mirex	0.001	e		Chlorinated Pesticides	B
7439-98-7	Molybdenum			3	Inorganic/Metal	
108-90-7	Monochlorobenzene (Chlorobenzene)	25	c	4		
	Monochlorophenols, total			3	Other Semi-Volatile	
91-20-3	Naphthalene	1.4	c	4	PAH	
84-74-2	n-Butylphthalate (Di-n-butyl phthalate)	3.4	a		Other Semi-Volatile	
7440-02-0	Nickel	8.2	e		Inorganic/Metal	B
139-13-9	Nitrilotriacetic acid			3		
	Nitrite			3	Anion	
98-95-3	Nitrobenzene	66.8	a	1	Volatile	
55-63-0	Nitroglycerine			3	Other Semi-Volatile	
621-64-7	Nitrosodipropylamine	120	b	2	Other Semi-Volatile	
55-18-5	N-Nitrosodiethylamine			3	Other Semi-Volatile	
62-75-9	N-Nitrosodimethylamine	330000	b	2	Other Semi-Volatile	
621-64-7	N-Nitrosodi-n-propylamine	120	b		Other Semi-Volatile	
86-30-6	N-Nitrosodiphenylamine	33000	a	1	Other Semi-Volatile	
95-48-7	o-Cresol (2-Methylphenol)	1020	b		Other Semi-Volatile	
56-38-2	Parathion	0.178	a	1	PAH	
	Parathion and methyl parathion			3	Organophosphorus Pesticide	
1336-36-3	PCBs, total			3	Other Pesticide/PCB	
106-44-5	p-Cresol (4-Methylphenol)			3	Other Semi-Volatile	

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608-93-5	Pentachlorobenzene	129	a		Other Semi-Volatile	B
76-01-7	Pentachloroethane			3	Other Semi-Volatile	
87-86-5	Pentachlorophenol	7.9	e		Other Semi-Volatile	B
78-11-5	PETN (Pentaerythrite-tetranitrate)			3	Other Semi-Volatile	
	pH	7-8.7	c	10	Inorganic	
85-01-8	Phenanthrene	1.5	d	5	PAH	B
108-95-2	Phenol	58	a	1	Other Semi-Volatile	B
100-42-5	Phenylethylene	910	b		Other Semi-Volatile	
298-02-2	Phorate			3		
7723-14-0	Phosphorus	0.1	e		Inorganic/Metal	
51207-31-9	Polychlorinated dibenzofurans			3	Dioxins/Furans	
	Polychlorinated dibenzo-p-dioxins (PCDD-S)			3	Dioxins/Furans	
7440-09-7	Potassium			3	Inorganic/Metal	
103-65-1	Propyl benzene			3	Volatile	
78-87-5	Propylene dichloride (1,2-Dichloropropane)	2400	a	1	Volatile	
129-00-0	Pyrene	0.24	b	2	PAH	B
110-86-1	Pyridine			3	Volatile	
	Quaternary ammonium compounds, total			3	Inorganic	
121-82-4	RDX (Cyclonite)			3	Explosive	
7782-49-2	Selenium	71	e		Inorganic/Metal	B
7440-22-4	Silver	0.23	a	1	Inorganic/Metal	B
7440-23-5	Sodium			3	Inorganic/Metal	
7440-24-6	Strontium			3	Inorganic/Metal	
100-42-5	Styrene (Phenylethylene)	910	b	2	Volatile	
7783-06-4	Sulfide (Hydrogen Sulfide)	2	e		Anion	
	Sulfite			3	Anion	
95-94-3	Tetrachlorobenzene (1,2,4,5-Tetrachlorobenzene)	129	a		Other Semi-Volatile	
79-34-5	Tetrachloroethane (1,1,2,2-Tetrachloroethane)	90.2	a	1	Volatile	
127-18-4	Tetrachloroethene (1,1,2,2-Tetrachloroethylene)	45	a		Volatile	
127-18-4	Tetrachloroethylene (1,1,2,2-Tetrachloroethylene)	45	a		Volatile	
56-23-5	Tetrachloromethane (Carbon tetrachloride)	1500	a	1	Volatile	
	Tetrachlorophenols, total			3	Other Semi-Volatile	
7440-28-0	Thallium	21.3	a	1	Inorganic/Metal	
7440-31-5	Tin			3	Inorganic/Metal	
108-88-3	Toluene	215	c	4	Volatile	
8001-35-2	Toxaphene	0.21	f		Organochlorine Pesticide	B
156-60-5	trans-1,2-Dichloroethylene (1,2-trans-Dichloroethylene)			3	Volatile	
75-25-2	Tribromomethane (Bromoform)	640	a		Volatile	
688-73-3	Tributyltin	0.001	c	4	Inorganic/Metal	B
12002-48-1	Trichlorobenzene (mixed isomers)	5	d	5,11	Other Semi-Volatile	
79-00-5	Trichloroethane (1,1,2-Trichloroethane)	550	b		Volatile	
79-01-6	Trichloroethene (Trichloroethylene)	1940	b		Volatile	
79-01-6	Trichloroethylene	1940	b		Volatile	
67-66-3	Trichloromethane (Chloroform)	815	a	1	Volatile	
25167-82-2	Trichlorophenols, total			3	Other Semi-Volatile	
1582-09-8	Trifluralin			3		
115-86-6	Triphenyl phosphate			3	Other Semi-Volatile	

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7440-61-1	Uranium			3	Inorganic/Metal	
7440-62-2	Vanadium			3	Inorganic/Metal	
1314-62-1	Vanadium pentoxide			3	Inorganic/Metal	
108-05-4	Vinyl acetate			3	Volatile	
100-42-5	Vinyl benzene (Phenylethylene)	910	b	2	Volatile	
75-01-4	Vinyl chloride			3	Volatile	
75-35-4	Vinylidene chloride (1,1-Dichloroethylene)	2240	a	1	Volatile	
108-38-3	Xylene, m-			3	Volatile	
1330-20-7	Xylenes (total)	19	d	5,12	Volatile	
7440-66-6	Zinc	81	e		Inorganic/Metal	B
7440-67-7	Zirconium			3	Inorganic/Metal	

Note: Values are expressed in terms of the dissolved analyte in the water column except for those indicated with endnote 4 which are expressed in terms of total concentration.

**EPA REGION 3 BTAG
MARINE SCREENING BENCHMARKS
7/2006**

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ENDNOTES

- ¹A safety factor of ten was used to derive a chronic value from an acute value.
- ²TNRCC Water Permits and Resource Management Division, 2001. In-house water quality chronic values derived for wastewater permits and requests from the office of waste based on LC50 values in accordance with methodology defined in the TSWQ.
- ³Currently, no marine value is available. Refer to US EPA Region 3's Freshwater Screening Benchmark table for a value.
- ⁴The Canadian Water Quality Guidelines values refer to the total concentration in an unfiltered sample.
- ⁵Value is protective of fish propagation in saline waters.
- ⁶Texas surface water quality standards chronic criteria from Texas Natural Resources Conservation Commission Texas Surface Water Quality Standards, Texas Administrative Code (TAC), Title 30, Chapter 307. Effective August 17, 2000. Available at: http://www.tceq.state.tx.us/permitting/water_quality/wq_assessment/standards/WQ_standards_1997.html
- ⁷Value is the product of acute AWQC value (0.13) and mixing coefficient (0.5) and safety factor (0.1).
- ⁸Value is derived from EPA Sediment Quality Criteria documents.
- ⁹Value is based on the lowest plant value reported.
- ¹⁰Variation from the natural pH of the area should not exceed 0.2 units.
- ¹¹Applies to the sum of 1,2,3-, 1,2,4- and 1,3,5-trichlorobenzene.
- ¹²Applies to the sum of 1,2-, 1,3- and 1,4-xylene.