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9 Appendices

A1 Asian countries

People's Republic of China
Japan
Malaysia
Singapore

A2 Australia and New Zealand

Australia
Western Australia

A3 Europe

European Union (Germany)
Netherlands
United Kingdom

A4 North America

Canada
British Columbia
United States
Florida

A5 World Health Organization

A1 Asian countries

	Parameters	Units	China			Japan			Malaysia			Singapore
			Ecosystem	Recreational	Aquaculture	Ecosystem	Recreational	Aquaculture	Ecosystem	Recreational	Aquaculture	Mariculture ^z
1	Nutrients	narrative										
2	Inorganic N	µg/L	200 – 500	150 – 1,000 ^a			10,000 ^k		400 ^a , 7000	400 ^a		60 ^u
3	Total Nitrogen	µg/L				200 ^l	300 ^l	600 ^l				
4	Total Phosphorus	µg/L	15 – 45 ^b	20 – 50	1 ^c	20 ^l	30 ^l	50 ^l		200	100	15 ^v
5	Chlorophyll <i>a</i>	µg/L										50
6	Aesthetic	narrative								odour / taste ⁿ		
7	Dangerous subst.	narrative										
8	Settleable material	narrative	nil ^d	nil ^d	nil ^d					floating/debris ⁿ		
9	Suspended solids	mg/L	10 – 150 ^e		10 ^e				25 ^p	50 ^p	150 ^p	+10% ^x
10	Dissolved oxygen	mg/L	3 – 6	3 – 5	3 – 5	≥ 7.52	≥ 7.5	≥ 5		5 – 7 ^p	3 – 5 ^p	4
11	Turbidity	NTU								50 ^p		
12	Colour	mg/LPtC _o	nil	< 25	nil		Transparent _m			150 ^{p,q}		
13	Light penetration	Secchi (m)		0.5 – 1.2			0.5 – 1					
14	pH		6.8 – 8.8	6.5 – 8.5	7 – 8.5	7.8 0 – 8.3	7.8 – 8.3	7.8 – 8.3		6 – 9 ^p	5 – 9 ^p	
15	Salinity											
16	Temperature	°C	< 1 – 4 ^f	< 2 – 4 ^f							± 2 ^p	± 2
17	Silica	µg/L								-50,000		
18	Arsenic (total)	µg/L	20 – 50		50		10		100	50	400	
18a	As III	µg/L										
18b	As V	µg/L										
19	Cadmium	µg/L	1 – 10		5		10		100	10	10	10
20	Chromium (total)	µg/L	50 – 500		100				500			
20a	Cr III	µg/L									2500	
20b	Cr VI	µg/L	5 – 50				50			50	1400	50
21	Copper	µg/L	5 – 50	10 – 100	10				100	1000		8
22	Lead	µg/L	1 – 50		50		10		100	50	20	8.5
23	Mercury (total)	µg/L	0.05 – 0.5		0.5		0.5		1	1	4	0.16
23a	Mercury organic	µg/L					0 ⁿ					
24	Nickel	µg/L	5 – 50	50 – 100	50		10			50	900	
25	Silver	µg/L								50	0.2	
26	Zinc	µg/L	20 – 500	100 – 1000	100					5,000	400	
27	Phenol	µg/L	5 – 50	5 – 100	5					10 ^p		120

	Parameters	Units	China			Japan			Malaysia			Singapore
			Ecosystem	Recreational	Mariculture	Ecosystem	Recreational	Aquaculture	Ecosystem	Recreational	Aquaculture	Mariculture
27a	Phenolics	µg/L			10 ^g							120
28	PAHs (total)	µg/L										
28a	PAHs as specified	µg/L	0.0025 ^h									
29	Tributyltin (TBT)	µg/L										10 ^w
29a	TBT as Sn	µg/L										
30	PCBs	µg/L					0 ⁿ			0.1 ^p	6 ^p	
31	DDT	µg/L	0.05 – 0.1		1					0.1 ^p	1 ^p	
32	Dioxins	µg/L										
33	Hexachlorobenzene (HCB)	µg/L								2 ^p	9 ^p	
34	Ammonia – total as N	µg/L		500 ⁱ						300 ^p	900 ^p	70
34a	Ammonia – unionised as NH ₃	µg/L			50							
34b	Ammonia – unionised as N	µg/L	20	20 – 200	20							
35	Cyanide	µg/L	5 – 200		5		10			20	60	7
36	Sulphide (total)	µg/L	20 – 250		200					50 ^r		
37	Surfactants	µg/L	10 – 30	200								
38	Oil & grease	µg/L				nil ⁿ⁻	nil ⁿ	nil ⁿ	nil ⁿ	40 – 7,000 ^s	nil ⁿ	140
39	Total Petroleum Hydrocarbons	µg/L	50 – 500		50			10 – 100				
40	Chlorine – total residual	µg/L								200,000		
41	Chlorination byproducts	µg/L										
42	<i>Escherichia coli</i>	cfu/100 mL	1,000	1,000	70, (50 – 500 ^j)	1,000 ^j	400 – 1,000 ^j	70 ^{j, o}	100 ^j	5,000 ^{j, p}	50,000 ^{j, p}	
43	Enterococci	cfu/100 mL										200 ^y
44	Faecal streptococci	cfu/100 mL										
45	<i>Clostridium perfringens</i>	cfu/100 mL										
46	Faecal coliforms	cfu/100 mL	200	200	14					400 ^{p, t}	5,000 ^p	

a: NO₂ only

j: total coliforms

r: sulphur

b: reactive phosphorous
c: yellow phosphorous
d: oil, foam or other floating substance
e: above level in natural ambient
f: range of variation above monthly average of last 10 years
g: volatile phenols
h: benzo[a]pyrene
i: for temperatures above 20oC and pH>8

k: NO₂ and NO₃
l: annual averages, applicable only where marine
phytoplankton blooms may occur
m: bathing beaches
n: not detectable
o: for the fishery class I to cultivate oyster to be eaten raw
p: proposed standard
q: TCU units

s: Class II waters, from nil to 40 µg/L mineral or nil to
7,000 µg/L emulsified edible
t: maximum 20,000 cfu
u: NO₃ only
v: Coastal; 45 µg/L for estuarine
w: listed as mg/L – assumed to be an error
x: 10% max increase over seasonal average
y: See Section 3.1.4 for Recreational WQG figure
z: “Aquatic life protection for the ASEAN Region”

A2 Australia and New Zealand

	Parameters	Units	Australia				Western Australia			
			Ecosystem	Recreation	Aquaculture	Consumption	Ecosystem	Recreation	Aquaculture	Consumption
1	Nutrients	narrative								
2	Inorganic N [NH3+NOx]	µg/L								
3	Total Nitrogen	µg/L	100 – 230 ^a							
4	Total Phosphorus	µg/L	10 – 40 ^a							
5	Chlorophyll a	µg/L	0.5 – 1.5				0.8			
6	Aesthetic	narrative		e				e		
7	Dangerous substances	narrative		f				f		
8	Settleable material	narrative		e				e		
9	Suspended solids	mg/L		e	10			e		
10	Dissolved oxygen (DO)	% saturation	>90%	>80%	>5 ^p		>90%		>5 ^p	
11	Turbidity	NTU	0.5 – 20	e				e		
12	Colour	mg/L Pt-Co		e	30 – 40			l		
13	Light penetration			e			0.9 ⁱ	k		
14	pH		8.0 – 8.5	6.5 - 8.5	6 – 9		± 0.2 ^m	5.0 – 9.0	6 – 9	
15	Salinity				33,000 – 37,000 ^f		± 0.8 ^m			
16	Temperature	°C		16 - 34	± 2 ^h		j			
617	Silica	µg/L								
18	Arsenic (total)	µg/L			30			140	30	
18a	As III	µg/L	ID ^b				ID ^b			
18b	As V	µg/L	ID ^b				ID ^b			
19	Cadmium	µg/L	0.7		0.5 – 5		0.7	40	5	
20	Chromium (total)	µg/L			20			1,000	20	
20a	Cr III	µg/L	27				27.4			
20b	Cr VI	µg/L	4.4				4.4			
21	Copper	µg/L	1.3		5	1,000	1.3	1,000	5	
22	Lead	µg/L	4.4		1 – 7		4.4	200	7	
23	Mercury (total)	µg/L	0.1 ^s		1		0.1 ^s	20	1	
23a	Mercury - organic	µg/L								
24	Nickel	µg/L	7		100		7	400	100	
25	Silver	µg/L	1.4		3		1.4	2,000	3	
26	Zinc	µg/L	15		5	5000	15	5,000	5	
27	Phenol	µg/L	400			1,000 - 10,000	400	300		
27a	Phenolics	µg/L	various			various		various		
28	PAHs (total)	µg/L	ID ^b				ID ^b			

	Parameters	Units	Australia				Western Australia			
			Ecosystem	Recreation	Aquaculture	Consumption	Ecosystem	Recreation	Aquaculture	Consumption
28a	PAHs as specified	µg/L	n			t	n	u		
29	Tributyltin (TBT)	µg/L			0.01					
29a	TBT as Sn	µg/L	0.006				0.006		0.004	
30	PCBs	µg/L	ID ^b		2		ID ^b		2	
31	DDT	µg/L	ID ^b				ID ^b	400		
32	Dioxins	µg/L	ID ^b							
33	Hexachlorobenzene (HCB)	µg/L	ID ^b							
34	Ammonia - total as N	µg/L	910 ^c		1,000		910 ^c		1000	
34a	Ammonia - unionised as NH ₃	µg/L			100					
34b	Ammonia - unionised as N	µg/L								
35	Cyanide	µg/L	4 ^d		5 ^d		4 ^d	1,600 ^d	5 ^d	
36	Sulphide (total)	µg/L	ID ^{b,d}		2 ^d		ID ^{b,d}		2 ^d	
37	Surfactants	µg/L	ID ^b	e			ID ^b	e		
38	Oil & grease	µg/L		e				e		
39	Total Petroleum Hydrocarbons	µg/L		e				e		
40	Chlorine - total residual	µg/L	ID ^b		3		ID ^b	100,000	3	
41	Chlorination byproducts	µg/L								
42	<i>Escherichia coli</i>	cfu/100 mL								
43	Enterococci	cfu/100 mL		g				200 ^g		
44	Faecal streptococci	cfu/100 mL								
45	<i>Clostridium perfringens</i>	cfu/100 mL								
46	Faecal coliforms					14 ^o				14 ^o

a: Actual value depends on broad region of Australia; excludes "South central Australia" where TN = 1000, TP = 100

b: Insufficient data - low reliability figures only

c: At pH 8.0

d: Un-ionised

e: Aesthetically acceptable

f: Levels that do not cause toxic effects or irritation. If have concerns do risk assessment. Actually relates to chemical hazards/substances generally, not just "dangerous substances".

g: Risk based assessment framework developed around results of sanitary inspection and 95th percentile levels of enterococci

h: Over 1 hour

i: Light attenuation coefficient

j: Less than a 0.5 to 1.9 °C increase depending on season; or not to exceed 80th percentile of the natural range over same period

k: Horizontal sighting of 200mm diameter black disc >1.6m. Also no more than 20% reduction in visual clarity.

l: No more than 10 point change on Munsell Scale

m: Or not to deviate beyond the 20th and 80th percentiles of the natural range over the same period

n: Naphthalene, 50 ug/L; others, insufficient data - low reliability figures only.

o: Median should be below this value in units of MPN/100mL with no more than 10% of samples exceeding 43 MPN/100mL; or in Western Australia median can be below this value in units of CFU/100mL with no more than 10% of samples exceeding 21 CFU/100mL.

p: mg/L

r: Total dissolved solids (TDS)

s: Inorganic mercury

t: Naphthalene, 1000 ug/L; acenaphthene, 20 ug/L

A3 Europe

	Parameters	Units	EU (and Germany)			Netherlands		United Kingdom	
			Ecosystem AA-EQS	Ecosystem MAC-EQS	Recreational	Ecosystem Guide	Ecosystem Mandatory	Ecosystem	Aquaculture
1	Nutrients	narrative	u						
2	Inorganic N [NH3+NOx]	µg/L	u			25,000 ¹	50,000 ¹	140 – 420 ⁿ	
3	Total Nitrogen	µg/L	u			1,000		980 – 3,794 ^o	
4	Total Phosphorous	µg/L	u			400 ^j			
5	Chlorophyll a	µg/L	u						
6	Aesthetic	narrative							
7	Dangerous substances	narrative							
8	Settleable material	narrative							
9	Suspended solids	mg/L	u			25			
10	Dissolved oxygen (DO)	% saturation	u			> 70%		2.4 – 5.7 ^p	
11	Turbidity	NTU	u						
12	Colour	mg/L Pt scale				10	20		
13	Light penetration	Secchi (m)	u						
14	pH					6.5 – 8.5			
15	Salinity		u						
16	Temperature	°C	u			22	25	± 2 ^q	± 2 ^q
617	Silica	µg/L							
18	Arsenic (total)	µg/L				10	50	25 ^r	
18a	As III	µg/L							
18b	As V	µg/L							
19	Cadmium	µg/L	0.2	0.45 – 1.5 ^a		1	5		
20	Chromium (total)	µg/L					50		
20a	Cr III	µg/L							
20b	Cr VI	µg/L						0.6 ^r	
21	Copper	µg/L				20	50	5 ^r	
22	Lead	µg/L	7.2				50		
23	Mercury (total)	µg/L	0.05 ^b	0.07 ^b		0.5	1		
23a	Mercury - organic	µg/L							
24	Nickel	µg/L	20						
25	Silver	µg/L							
26	Zinc	µg/L				500	3,000	40 ^r	
27	Phenol	µg/L						7.7 ^r , 46 ^s	
27a	Phenolics	µg/L	0.01 – 0.4 ^c	1-2 ^c			1 ^k	20 ^{r,t}	

	Parameters	Units	EU (and Germany)			Netherlands		United Kingdom	
			Ecosystem AA-EQS	Ecosystem MAC-EQS	Recreational	Ecosystem Guide	Ecosystem Mandatory	Ecosystem	Aquaculture
28	PAHs (total)	µg/L	d	d			0.2		
28a	PAHs as specified	µg/L	0.002 – 0.05 ^c	0.1 ^f					
29	Tributyltin (TBT)	µg/L	0.0002	0.0015					
29a	TBT as Sn	µg/L							
30	PCBs	µg/L							
31	DDT	µg/L	0.01, 0.025 ^g						
32	Dioxins	µg/L							
33	Hexachlorobenzene (HCB)	µg/L	0.01	0.05					
34	Ammonia - total as N	µg/L							
34a	Ammonia - unionised as NH ₃	µg/L				50			
34b	Ammonia - unionised as N	µg/L						21 ^r	
35	Cyanide	µg/L					50	1 ^r , 5 ^s	
36	Sulphide (total)	µg/L							
36a	Un-ionised H ₂ S	µg/L							
37	Surfactants	µg/L				200			
38	Oil & grease	µg/L							
39	Total Petroleum Hydrocarbons	µg/L					50		
40	Chlorine - total residual	µg/L				200,000 ^l		10 ^s	
41	Chlorination byproducts	µg/L							
42	<i>Escherichia coli</i>	cfu/100 mL			h	50 ^m			
43	Enterococci	cfu/100 mL			h				
44	Faecal streptococci	cfu/100 mL				20			
45	<i>Clostridium perfringens</i>	cfu/100 mL							
46	Faecal coliforms	cfu/100 mL				20			

a: range for five different water classes

b: total Hg and its compounds

c: octylphenol, nonylphenol and pentachlorophenol

d: not applicable; individual compounds have an specific EQS

e: range for individual compounds; naphthalene 1.2 µg/L.

f: benzo(a)pyrene

g: p-p-DDT and total respectively

h: assessment and classification based on levels of Enterococci and *E. coli*, supplemented by development and regular review of the bathing water profile

i: nitrates

j: phosphates

k: phenol index

l: chlorides

m: total coliforms, assuming >90% are *E. coli*.

n: 15 to 30 µM from offshore to transitional waters respectively

o: 70 to 271 µM from clear to very turbid estuaries

p: mg/L in moderate to high water conditions

q: interim, applicable to marine Special Protection Areas

r: long-term (AA-EQS)

s: short-term (MAC-EQS)

t: 2,4-dichlorophenol

u: Member states to assess ecological status with respect to nutrient conditions, transparency, oxygenation conditions, salinity & thermal conditions based on findings at type-specific reference sites

A4 North America

	Parameters	Units	Canada		British Columbia			USA			Florida
			Ecosystem	Recreational	Ecosystem	Recreational	Aquaculture	Ecosystem CMC	Ecosystem CCC	Consumption	Ecosystem ^{ab} Aquaculture
1	Nutrients	narrative	a								
2	Inorganic N [NH3+NOx]	µg/L	16,000 ^b							10,000 ^b	
3	Total Nitrogen	µg/L									
4	Total Phosphorous	µg/L						0.1			0.1
5	Chlorophyll a	µg/L									
6	Aesthetic	narrative		c							
7	Dangerous substances	narrative									
8	Settleable material	narrative	c	c							
9	Suspended solids	mg/L	a		5, 25 ^h	nil ^g		a	a	a	
10	Dissolved oxygen (DO)	mg/L	>8		5, 11 ⁱ						4 ^{aa}
11	Turbidity	NTU	a	50	8, 2 ^h	50		a	a	a	29
12	Colour	Pt-Co mg/L	g	d	<5	<15		a	a	a	
13	Light penetration	Secchi (m)		1.2		1.5					<10% ^d
14	pH		7.0 – 8.7	6.5 – 8.5	7.0 – 8.7	6.5 – 8.5			6.5 – 8.5	5.0 – 9.0	6.5 – 8.5 ^d
15	Salinity		<10% ^d		<10% ^d					250,000	
16	Temperature	°C	± 1	≤30	± 1	≤30					
617	Silica	µg/L									
18	Arsenic (total)	µg/L	12.5 ^e		12.5 ^e			69	36	0.018	50
18a	As III	µg/L									36
18b	As V	µg/L									
19	Cadmium	µg/L	0.12					40	8.8		8.8
20	Chromium (total)	µg/L									
20a	Cr III	µg/L	56 ^e								
20b	Cr VI	µg/L	1.5					1,100	50		50
21	Copper	µg/L			2, 3 ^j	1,000		4.8	3.1	1,300	3.7
22	Lead	µg/L			2, 140 ^j	50		210	8.1		8.5
23	Mercury - inorganic	µg/L	0.016 ^e		0.02, 2 ^k	1		1.8 ^k	0.94 ^k		0.025 ^k
23a	Mercury - organic	µg/L	0.004 ^f		<0.5 – 5 ^l		0.5 ^q			0.3 ^q	
24	Nickel	µg/L						74	8.2	610	8.3
25	Silver	µg/L			1.5, 3 ^j			1.9			2.3
26	Zinc	µg/L			10	5,000		90	81	7,400	86
27	Phenol	µg/L								21,000	300
27a	Phenolics	µg/L	0.7 ^m		0.2 – 130 ^s	0.1 – 860 ^s		7.0 - 13 ^s	1.7 – 7.9 ^s	0.27 – 1,800 ^v	1.0 ^v
28	PAHs (total)	µg/L	ID				1 – 4 ^q			670 – 8,300 ^w	0.031 ^{af} 031 ^{ab}

	Parameters	Units	Canada		British Columbia			USA			Florida
			Ecosystem	Recreational	Ecosystem	Recreational	Aquaculture	Ecosystem CMC	Ecosystem CCC	Consumption	Ecosystem Aquaculture
28a	PAHs as specified	µg/L	1.4 ^{e,n}				0.01 ^o			0.0038 ^x	0.37-110 ^{agac}
29	Tributyltin (TBT)	µg/L	0.001 ^e		0.001	20		0.42	0.0074		
29a	TBT as Sn	µg/L									
30	PCBs	µg/L			0.0001 ^p		0.1 – 2 ^q		0.03 ^p	0.000064 ^p	0.03 ^p
31	DDT	µg/L						0.13	0.001	0.00022	0.001
32	Dioxins	µg/L								5 x 10 ^{-9y}	
33	Hexachlorobenzene (HCB)	µg/L	ID							0.00028	
34	Ammonia - total as N	µg/L			690 – 291,000 ^t		s,t	s,t	s,t		
34a	Ammonia - unionised as NH ₃	µg/L									
34b	Ammonia - unionised as N	µg/L									
35	Cyanide	µg/L			1			1	1	140	1
36	Sulphide – H ₂ S	µg/L							2		
37	Surfactants	µg/L									
38	Oil & grease	µg/L		nil ^g		g		a	a	a	5000 + g
39	Total Petroleum Hydrocarbons	µg/L									
40	Chlorine - total residual	µg/L	0.5 ^r		3			13	7.5		10
41	Chlorination byproducts	µg/L	ID								
42	<i>Escherichia coli</i>	cfu/100 mL		200		77	<14, 385 ^u				230 ^{aa} , 2,400
43	Enterococci	cfu/100 mL		35		20	<4, 100 ^u			35 ^z	
44	Faecal streptococci	cfu/100 mL									
45	<i>Clostridium perfringens</i>	cfu/100 mL									
46	Faecal coliforms	cfu/100 mL		200		200	<14				<14, 800 ^{ahad}

ID = insufficient data

a: narrative

b: NO₃⁻ only, equivalent to 3,600 µg N L⁻¹

c: aesthetically acceptable = absence of debris, scum or other matter

d: not significantly increased above natural background

e: interim guideline

f: freshwater guideline

n: naphthalene

o: benzo[a]pyrene

p: total PCBs congeners

q: µg/g wet weight in fish/shellfish

r: hypochlorous acid and monochloramine

s: pH dependent

t: range depending on temperature for 20 g/kg salinity

aa: minimum value. Av ≥ 5.0 mg/L in 24h for Class II shellfish

ab: Annual average - Σ9 PAHs values were same for both uses

ac: acenaphthene; anthracene; fluoranthene; fluorene; pyrene not reduced >10% of natural background

ad: minimum maximum value. Av ≥ 5.0 mg/L in 24h

g: not detectable by sight or smell
h: 24 h and mean for 30-d average, respectively
i: instantaneous and 30-d average, respectively
j: 30-d average and maximum limit, respectively
k: total mercury
l: proportion of total Hg
m: nonylphenol TEQ

u: median and maximum for crustacean harvesting, respectively
v: pentachlorophenol, chlorophenols, dinitrophenols and nonylphenols
w: anthracene, pyrene, acenaphthene
x: benzo(a)pyrene, benzo(a)anthracene, benzo(a)fluoranthene, indeno(1,2,3-cd)pyrene
y: 2,3,7,8-TCDD
z: Recreational guideline; maximum values should not exceed the range 104-500 cfu/100 mL depending on frequency of use

period.
ae: Narrative descriptions in addition
af: Annual average - $\Sigma 9$ PAHs
ag: Individual PAHs: acenaphthene; anthracene; fluoranthene; fluorene; pyrene
ah: Maximum value; MPN ≤ 14 median with $\leq 10\%$ samples exceeding 43.

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	Parameters	Units	Recreational		Parameters	Units	Recreational
1	Nutrients	narrative		25	Silver	µg/L	
2	Inorganic N	µg/L		26	Zinc	µg/L	
3	Total Nitrogen	µg/L		27	Phenol	µg/L	
4	Total Phosphorous	µg/L		27a	Phenolics	µg/L	
5	Chlorophyll a	µg/L		28	PAHs (total)	µg/L	
6	Aesthetic	narrative	a	28a	PAHs as specified	µg/L	
7	Dangerous substances	narrative	b	29	Tributyltin (TBT)	µg/L	
8	Settleable material	narrative	a	29a	TBT as Sn	µg/L	
9	Suspended solids	mg/L	a	30	PCBs	µg/L	
10	Dissolved oxygen (DO)	% saturation	a	31	DDT	µg/L	
11	Turbidity	NTU	a	32	Dioxins	µg/L	
12	Colour	Pt-Co units	a	33	Hexachlorobenzene (HCB)	µg/L	
13	Light penetration	Secchi (m)	a	34	Ammonia - total as N	µg/L	
14	pH			34a	Ammonia - unionised as NH ₃	µg/L	
15	Salinity			34b	Ammonia - unionised as N	µg/L	
16	Temperature	°C		35	Cyanide	µg/L	
17	Silica	µg/L		36	Sulphide (total)	µg/L	
18	Arsenic (total)			36a	Un-ionised H ₂ S	µg/L	
18a	As III	µg/L		37	Surfactants	µg/L	
18b	As V	µg/L		38	Oil & grease	µg/L	
19	Cadmium	µg/L		39	Total Petroleum Hydrocarbons	µg/L	
20	Chromium (total)	µg/L		40	Chlorine - total residual	µg/L	
20a	Cr III	µg/L		41	Chlorination byproducts	µg/L	
20b	Cr VI	µg/L		42	<i>Escherichia coli</i>	cfu/100 mL	
21	Copper	µg/L		43	Enterococci	cfu/100 mL	c
22	Lead	µg/L		44	Faecal streptococci	cfu/100 mL	
23	Mercury - inorganic	µg/L		45	<i>Clostridium perfringens</i>	cfu/100 mL	
23a	Mercury - organic	µg/L		46	Faecal coliforms	cfu/100 mL	
24	Nickel	µg/L					

- a: Strictly speaking no guidelines established but ideally water should be free from visible materials that will settle to form objectionable deposits, floating debris, oil, scum and other matter, substances producing objectionable colour, odour, taste or turbidity, and substances and conditions that produce undesirable aquatic life. Ideally water in swimming areas should also be clear enough to estimate depth and see subsurface hazards.
- b: Strictly speaking no guidelines established but where there are potential concerns about chemical contaminants it is suggested that drinking water guidelines can be used as a starting point for deriving values that could be used to make a screening level risk assessment. This relates to chemical hazards/substances generally, not just “dangerous substances”.
- c: Risk based assessment framework developed around results of sanitary inspection and 95th percentile levels of enterococci

