

**PROPOSED INTERIM NATIONAL WATER QUALITY STANDARD
FOR MALAYSIA**

PARAMETERS	CLASSES					
	I	11A	11B	11I	IV	V
Ammoniacal nitrogen	0.1	0.3	0.3	0.9	2.7	2.7
BOD (mg/l)	1	3	3	6	12	12
COD (mg/l)	10	25	25	50	100	100
DO (mg/l)	7	5-7	5-7		3	1
pH	6.5- 8.5	6.5-9	6.5- 9.0	3-5	5-9	-
Colour (TUC)	15	150	150	5-9	-	-
Electrical Conductivity (umhos/cm)**	1000	1000	-	-	6000	-
floatables	NV	NV	NV	-	-	-
Odour	NOO	NOO	NOO	-	-	-
Salinity (%)**	0.5	1	-	-	2	-
Taste	NOT	NOT	NOT	-	-	-
Total Dissolved Solids (mg/l)	500	1000	-	-	4000	-
Total Suspended Solids (mg/l)	25	50	50	150	300	300
Temperature (C)	-	Normal 2	-	Normal 2	-	-
Turbidity (NTU)	5	50	50	-	-	-
Faecal Coliform (Counts/100ml)	10	100	400	5000(20000)@	5000(20000)@	-
Total Coliform (counts/100ml)	100	5000	5000	5000	5000	5000
Al (mg/l)	N	-	-	0.056	0.5	-
As (mg/l)	A	0.05	NR	0.045 (0.44)	0.1	L
Ba (mg/l)	T	1	NR	-	-	E
Cd (mg/l)	U	0.005	NR	0.001(0.011)**	0.01	V
B (mg/l)	R	1	NR	3.4	0.75	E

PARAMETERS	CLASSES					
	I	IIA	IIIB	III	IV	V
Cl ₂ (mg/l)	L	-	NR	0.022	-	L
CN (mg/l)		0.02	NR	0.0023 (0.058)	-	
F (mg/l)	L	1	NR	(11)	1	A
NO ₃ /NO ₂ (mg/l)	E	7/3	NR	0.028 (0.37)	5	B
P (mg/l)	V	0.1	NR	0.1	-	O
Silica (mg/l)	E	50	NR	-	-	V
SO ₄ (mg/l)	L	200	NR	-	-	E
S (mg/l)	S	0.05	NR	0.001	-	
CO ₂ (mg/l)		-	NR	-	-	IV
Gross (Bql)		0.1	NR	-	-	
Gross (Bql)		1	NR	-	-	
Ra-226 (Bql)		+0.1	NR	-	-	
Sr-90 (Bql)		+0.1	NR	-	-	

CCE (ug/l)	NL	500	NR	-	NR	NR
MBAS/BAS (ug/l)	NL	500	NR	200	NR	NR
O&G (Mineral) (mg/l)	NL	40;NF	NR	NL	NR	NR
O&G (Emulsified edible) (ug/l)	NL	7000;N F	NR	NL	NR	NR
PCB (mg/l)	NL	0.1	NR	0.044, (6.1)	NR	NR
Phenol (ug/l)	absent	10	NR	(9900)	NR	NR
Aldrin/	absent	0.02	NR	0.08	NR	NR
Dieldrin (ug/l)	absent	-	NR	(0.2), 0.13	NR	NR
BHC (ug/l)	absent	2	NR	(9.9)	NR	NR
Chlordane (ug/l)	absent	0.08	NR	(2.2), 0.004	NR	NR
t-DDT (mg/l)	absent	0.1	NR	(1)	NR	NR
Endosulfan (ug/l)	absent	10	NR	(0.01)	NR	NR
Heptachlor I	absent	0.05	NR	0.06	NR	NR

PARAMETERS	CLASSES					
	I	IIA	IIIB	III	IV	V
Epoxide (ug/l)	absent	-	NR	(0.91)	NR	NR
Lindane (ug/l)	absent	2	NR	0.38, (2.9)	NR	NR
2,4-D (ug/l)	absent	70	NR	(450)	NR	NR
2,4,5-T (ug/l)	absent	10	NR	(160)	NR	NR
2,4,5-P (ug/l)	absent	4	NR	(850)	NR	NR
Paraquat (ug/l)	absent	10	NR	(1800)	NR	NR
Cr(IV) (mg/l)	NL	0.05	-	0.056 (1.45)	0.1	-
Cr (III) (mg/l)	NL	-	NR	-(2053)	-	L
Cu (mg/l)	NL	1	NR	0.01(0.0 12**)	0.2	E
Hardness (mg/l)	NL	100	NR	-	-	V
Ca (mg/l)	NL	-	NR	-	-	E
Mg (mg/l)	NL	0.05	NR	-	-	L
Na (mg/l)	NL	-	NR	-	3SAR	
K (mg/l)	NL	-	NR	-	-	A
Fe (mg/l)	NL	0.3	NR	1	1(Leaf 5 (Others)	B
Pb (mg/l)	NL	0.05	NR	0.01(0.0 14*)	5	O
Mn (mg/l)	NL	0.1	NR	0.1	0.2	V
Hg (mg/l)	NL	0.001	NR	0.0001(0.004)	0.002	E
Ni (mg/l)	NL	0.05	NR	-(0.9*)	0.2	
Se (mg/l)	NL	0.01	NR	0.037(0. 25)	0.02	IV
Ag (mg/l)	NL	0.05	NR	- (0.0002)	-	
Sn (mg/l)	NL	NR	NR	0.05	-	
U (mg/l)	NL	NR	NR	-	-	
Zn (mg/l)	NL	5	NR	-(0.35)	2	

NOTES	
CLASS I	Conservation of natural environmental Water Supply 1 - practically no treatment necessary. Fishery 1- very sensitive aquatic species
CLASS 11A	Water Supply 11 - conventional treatment required Fishery 11- sensitive aquatic species
CLASS 11B	Recreational use with body contact
CLASS 111	Water Supply 111- extensive treatment required Fishery 111- common, of economic value, and tolerant species. Livestock drinking.
CLASS 1V	Irrigation
CLASS V	None of the Above
NV	No Visible floatable materials or debris
NOO	No objectionable odour
NOT	No objectionable taste
**	Related Parameters, only one recommended for use
@	maximum not to be exceeded
NR	No Recommendation
*	At hardness 50mg/l CaCO_3
#	24-hr average and maximum (bracketed) concentrations are shown
NF	Free from visible film, sheen, discoloration and deposits
NL	Free form visible layer, discoloration and deposits

MICROBIOLOGICAL AND BIOLOGICAL QUALITY

ORGANISM	UNIT	GUIDELINE VALUE	REMARKS
1. Microbiological quality A. Piped Water supplies A.1 Treated water entering the distribution system fecal coliforms coliform organisms	number/100ml number/100ml	0 0	turbidity < 1 NTU; for disinfection with chlorine, pH preferably < 8.0; free chlorine residual 0.2-0.5 mg/l following 30 minutes (min) contact
A.2 Untreated water entering the distribution system fecal coliforms coliform organisms coliform organisms	number/100ml number/100ml number/100m	0 0 3	in 98 of samples examined throughout the year- in the case of large supplies when sufficient samples are examined in an occasional sample, but not in consecutive samples
A.3 Water in the distribution system fecal coliforms coliform organisms coliform organisms	number/100ml number/100ml number/100ml	0 0 3	in 95% of samples examined throughout the year - in the case of large supplies when sufficient samples are examined in an occasional sample, but not in consecutive samples
B. Unpiped Water Supplies fecal coliforms coliform organisms		0 10	should not occur repeatedly; if occurrence is frequent

			and if sanitary protection cannot be proved, an alternative source must be found if possible
C. Bottled Drinking Water			
fecal coliforms coliform organisms	number/100ml number/100ml	0 0	source should be free from fecal contamination
D. Emergency Water Supplies			
fecal coliform coliform organisms	number/100ml number/100ml	0 0	advise public to boil water in case of failure to meet guideline values
enterovirus		no guideline value set	
II Biological quality			
protozoa (pathogenic)	-	no guideline value set	
helminths (pathogenic)	-	no guideline value set	
free-living organisms (algae, others)	-	no guideline value set	