# NATIONAL WATER QUALITY STANDARDS FOR MALAYSIA

PARAMETER	UNIT	CLASS						
		ı	IIA/IIB	III#	III# IV V			
Al	mg/l	<b>A</b>	-	(0.06)	0.5	<b>A</b>		
As	mg/l		0.05	0.4 (0.05)	0.1			
Ba	mg/l		1	-	-			
Cd Cr (VI)	mg/l		0.01 0.05	0.01* (0.001)	0.01 0.1			
Cr (III)	mg/l mg/l		0.05	1.4 (0.05) 2.5	0.1 -			
Cu	mg/l		0.02	2.5	0.2			
Hardness	mg/l		250	_	-			
Ca	mg/l		-	_	-			
Mg	mg/l		-	-	-			
Na	mg/l	l	-	_	3 SAR			
К	mg/l		-	-	=			
Fe	mg/l		1	1	1 (Leaf) 5 (Others)	L E V		
Pb	mg/l	N	0.05	0.02* (0.01)	5	V		
Mn	mg/l	A T	0.1	0.1	0.2	E		
Hg	mg/l	U R	0.001	0.004 (0.0001)	0.002	L S		
Ni	mg/l	Α	0.05	0.9*	0.2			
Se	mg/l	L	0.01	0.25 (0.04)	0.02	Α		
Ag	mg/l		0.05	0.0002	-	В		
Sn	mg/l	L	-	0.004	-	O V		
U	mg/l	E V	-	- 0.4*	-	E E		
Zn B	mg/l mg/l	E E	5 1	0.4* (3.4)	2 0.8			
CI	mg/l	L	200	(3.4)	80	n. /		
Cl <sub>2</sub>	mg/l	S	-	(0.02)	-	IV		
CN	mg/l	0	0.02	0.06 (0.02)	_			
F	mg/l	R	1.5	10	1			
NO <sub>2</sub>	mg/l		0.4	0.4 (0.03)	-			
NO <sub>3</sub>	mg/l	A	7	-	5	1		
Р	mg/l	B S	0.2	0.1	-			
Silica	mg/l	S E	50	-	-			
SO₄	mg/l	N	250	-	-			
S	mg/l	Т	0.05	(0.001)	-			
CO <sub>2</sub>	mg/l		-	=	=			
Gross-α	Bq/l		0.1 1	-	-	1 1		
Gross-β Ra-226	Bq/l		< 0.1	-	-	•		
Sr-90	Bq/l Bq/l		< 1	_	<u>-</u>			
CCE	μg/l		500	_	<u>-</u>	_		
MBAS/BAS	μg/l		500	5000 (200)	_	_		
O & G (Mineral)	μg/l		40; N	N	_	_		
O & G (Emulsified Edible)	μg/l		7000; N	N	-	-		
PCB	μg/l		0.1	6 (0.05)	-	_		
Phenol	μg/l		10	-	-	_		
Aldrin/Dieldrin	μg/l		0.02	0.2 (0.01)	<del>-</del>	-		
внс	μg/l		2	9 (0.1)	<del>-</del>	-		
Chlordane	μg/l		0.08	2 (0.02)	<del>-</del>	-		
t-DDT	μg/l		0.1	(1)	-	-		
Endosulfan	μg/l		10	`-'	<del>-</del>	-		
Heptachlor/Epoxide	μg/l		0.05	0.9 (0.06)	<del>-</del>	-		
Lindane	μg/l		2	3 (0.4)	<del>-</del>	-		
2,4-D	μg/l	♦	70	450	-	-		
2,4,5-T	μg/l	,	10	160	<del>-</del>	-		
2,4,5-TP	μg/l		4	850	<del>-</del>	-		
Paraquat	μ <b>g</b> /l		10	1800	-	-		

Notes :  $^*$  = At hardness 50 mg/l CaCO<sub>3</sub>  $^*$  = Maximum (unbracketed) and 24-hour average (bracketed) concentrations  $^N$  = Free from visible film sheen, discolouration and deposits

# NATIONAL WATER QUALITY STANDARDS FOR MALAYSIA (cont.)

PARAMETER	UNIT	CLASS					
		I	IIA	IIB	III	IV	V
Ammoniacal Nitrogen	mg/l	0.1	0.3	0.3	0.9	2.7	> 2.7
Biochemical Oxygen Demand	mg/l	1	3	3	6	12	> 12
Chemical Oxygen Demand	mg/l	10	25	25	50	100	> 100
Dissolved Oxygen	mg/l	7	5 - 7	5 - 7	3 - 5	< 3	< 1
рH	-	6.5 - 8.5	6 - 9	6 - 9	5 - 9	5 - 9	-
Colour	TCU	15	150	150	-	-	-
Electrical Conductivity*	μS/cm	1000	1000	-	-	6000	-
Floatables	-	N	N	N	-	-	-
Odour	=	N	N	N	-	-	-
Salinity	ppt	0.5	1	-	-	2	-
Taste	-	N	N	N	-	-	-
Total Dissolved Solid	mg/l	500	1000	-	-	4000	-
Total Suspended Solid	mg/l	25	50	50	150	300	300
Temperature	°C	-	Normal + 2 °C	-	Normal + 2 °C	-	-
Turbidity	NTU	5	50	50	-	-	-
Faecal Coliform**	count/100 ml	10	100	400	5000 (20000) <sup>a</sup>	5000 (20000) <sup>a</sup>	-
Total Coliform	count/100 ml	100	5000	5000	50000	50000	> 50000

### Notes:

N: No visible floatable materials or debris, no objectional odour or no objectional taste
\*: Related parameters, only one recommended for use
\*\*: Geometric mean

a: Maximum not to be exceeded

## **WATER CLASSES AND USES**

CLASS	USES
Class I	Conservation of natural environment.  Water Supply I – Practically no treatment necessary.  Fishery I – Very sensitive aquatic species.
Class IIA	Water Supply II – Conventional treatment required. Fishery II – Sensitive aquatic species.
Class IIB	Recreational use with body contact.
Class III	Water Supply III – Extensive treatment required. Fishery III – Common, of economic value and tolerant species; livestock drinking.
Class IV	Irrigation
Class V	None of the above.