

Standard Kualiti Air Tanah Kebangsaan

Bagi memulihara sumber air tanah, Jabatan Alam Sekitar (JAS), di bawah Rancangan Malaysia Ke-11 telah menjalankan satu kajian bagi membangunkan satu Standard Kualiti Air Tanah Kebangsaan (kajian telah selesai pada tahun 2017)

Standard Kualiti Air Tanah Kebangsaan Merujuk Kepada tiga (3) Kegunaan Berfaedah Seperti Berikut:



i. Air Minuman



ii. Pertanian



iii. Industri

PARAMETER	THRESHOLD (mg/L)
Total coliform	5000 MPN/100 ml
E coli	5000 MPN/100 ml
Turbidity	1000 NTU
Color	300 TCU
pH	5.5-9.0
Temperature	Normal \pm 2°C
Conductivity	1000 μ S/cm [#]
Total dissolved solids	1500
Chloride	250
Ammonia	1.5
Nitrate	10
Iron	1.0
Fluoride	1.5
Hardness	500
Manganese	0.2
COD	10
MBAS	1.0
BOD	6
Nitrite	0.4 [#]
Mercury	0.001
Cadmium	0.003
Arsenic	0.01
Cyanide	0.07
Lead	0,05
Chromium	0.05
Copper	1.0
Zinc	3.0
Sodium	200
Sulphate	250
Selenium	0.01
Silver	0.05
Magnesium	150
Mineral oil	0.3
Pesticides*	0.00003-0.03
Phenol	0.002
Nickel	0.05
Gross alpha	0.1 Bq/l
Gross beta	1.0 Bq/l

* Aldrin/dieldrin, DDT, Heptachlor, Methoxychlor, Lindane, Chlordane, Endosulfan, hexachlorobenzene, 2,4,5 – T, 2,4-D, 2,4-DB, Alachlor, Aldicarb, Carbofuran, MCPA, Permethrin

[#] Diambil dari *Class IIA, National Water Quality Standards*

Jadual 1: Standard Kualiti Air Tanah Kebangsaan Untuk Rawatan Air Minuman Secara Konvensional

PARAMETER	THRESHOLD (mg/L)	BENEFICIAL USE
Aluminium	5.0	Agricultural use
Arsenic	0.1	Agricultural use
Cadmium	0.01	Agricultural use
Chromium	0.1	Agricultural use
Copper	0.2	Agricultural use
Manganese	0.2	Agricultural use
Nickle	0.2	Agricultural use
Sodium	3.0 me/L* (SAR ¹ < 3)	Agriculture use
Chloride	4.0 me/L	Agriculture use
Zinc	2.0	Agricultural use
Boron	0.7	Agricultural use
Conductivity	700 μ S/cm	Agricultural use
Nitrate & nitrite	100	Livestock
Sulphate	1,000	Livestock
TDS	3,000	Livestock

Jadual 2: Standard Kualiti Air Tanah Kebangsaan Untuk Pertanian

PARAMETER	THRESHOLD (mg/L)
Alkalinity	300
COD	30
Chloride	100
Fe	0.3
Mn	0.2
pH	6.5-8.0
Silica	20.0
Sulphate	200
TDS/Cond (mS/m)	450/70
SS	5
Total hardness	250

Jadual 3: Standard Kualiti Air Tanah Kebangsaan Untuk Industri