

## Guides on WQI and water pollution class

### Water Quality Index Ranges

90- 100 : Excellent , 70-90 : Good, 50-70 : Medium, 20-50 : Bad, 0-20 : Very Bad

### Relationship between WQI and water qualification

Degree of Pollution	WQI range
Clean	81-100
Slightly Polluted	60-80
Very Polluted	0-59

### Degree of Pollution and its parameters

Degree of Pollution	Class					
	I	II (A)	II(B)	III	IV	V
	Clean	Slightly polluted	Slightly polluted	Very polluted	Very polluted	Heavily polluted

Uses of the River Water based on the Class

Class	Uses
I	Conservation of natural environment Water Supply I- practically no treatment necessary (except by disinfection or boiling only)
II (A)	Fisheries I - very sensitive aquatic species Water Supply II - conventional treatment required
II (B)	Fisheries II - sensitive aquatic species Recreational use with body contact
III	Water supply III – common of economic value and tolerant species Livestock drinking
IV	Irrigation
V	none of the above

Parameters	Class					
	I	II (A)	II(B)	III	IV	V
DO (mg/l)	7	5-7	5-7	3-5	<3	<1
BOD <sub>5</sub> (mg/l)	1	3	3	6	12	>12
AN (mg/l)	0.1	0.3	0.3	0.9	2.7	>2.7
COD (mg/l)	10	25	25	50	100	>100
TSS (mg/l)	25	50	50	150	300	>300
PH (umhos/cm)	6.5-8.5	6-9	6-9	5-6	5-6	<5
EC(no./100ml)	1000	1000	1000	-	6000	-
Total coliform	100	5000	5000	5000	5000	5000
PO <sub>4</sub> (mg/l)	N	0.1	NR	0.1	-	+
NO <sub>3</sub> (mg/l)	N	7/3	NR	0.37		+

Reference : USM, 1995, Juru River Basin Rehabilitation, part II - technical report