

Table 3 Physicochemical characteristics of Nun River at Gbarantoru and Tombia axis in Bayelsa state Nigeria in comparison with standard limits

Parameters	Mean± Standard deviation (n=9)	NDWQ (SON 2007)	WHO
pH	6.35±0.08	6.5 – 8.5	6.5 – 8.5
Salinity (mg/l)	0.03±0.01	-	-
Conductivity (µS/cm)	66.69±5.40	1000	1000
Turbidity (NTU)	18.74±0.22	5	-
Total Dissolved Solid (mg/l)	33.34±2.71	500	500
Total Suspended Solid (mg/l)	2.06±0.08	-	500
Total Alkalinity (mg/l)	14.70±0.99	-	20
Total Hardness (mg/l)	22.58±0.58	150	800
Nitrate (mg/l)	0.27±0.07	50	<50
Chloride (mg/l)	12.28±1.55	250	<250
Sulphate (mg/l)	2.22±0.33	100	<250
Calcium (mg/l)	7.98±1.01	-	<1000
Magnesium(mg/l)	2.49±0.55	0.2	<220
Sodium (mg/l)	4.31±0.59	200	-
Potassium (mg/l)	1.31±0.13	-	-
Bicarbonate (mg/l)	1.14±0.30	-	-
Dissolved oxygen (mg/l)	6.31±0.33	-	-
Biochemical Oxygen Demand (mg/l)	153.10±3.69	-	-