

Table 1 Physicochemical characteristics of Nun River at Gbarantoru and Tombia axis in Bayelsa state Nigeria

Parameters	Location A (around oil and gas installations)	Location B (Gbarantoru)	Location C (Tombia town)
pH	6.27±0.01a	6.33±0.01b	6.45±0.01c
Salinity (mg/l)	0.03±0.01a	0.03±0.01a	0.03±0.01a
Conductivity (µS/cm)	59.70±0.10a	68.73±0.03b	71.65±0.05c
Turbidity (NTU)	18.52±0.06a	18.75±0.04a	18.99±0.18b
Total Dissolved Solid (mg/l)	29.83±0.06a	34.37±0.02b	35.83±0.03c
Total Suspended Solid (mg/l)	1.96±0.02a	2.09±0.01b	2.13±0.01c
Total Alkalinity (mg/l)	15.20±0.20b	15.50±0.10b	13.40±0.20a
Total Hardness (mg/l)	23.30±0.26b	22.23±0.21a	22.20±0.20a
Nitrate (mg/l)	0.35±0.00c	0.28±0.00b	0.18±0.00a
Chloride (mg/l)	14.33±0.12c	11.40±0.10b	11.10±0.10a
Sulphate (mg/l)	2.53±0.01c	2.26±0.03b	1.79±0.06a
Calcium (mg/l)	9.20±0.61b	7.69±0.05a	7.05±0.06a
Magnesium(mg/l)	3.17±0.00c	2.38±0.05b	1.92±0.05a
Sodium (mg/l)	4.55±0.01b	4.84±0.02c	3.55±0.02a
Potassium (mg/l)	1.17±0.00a	1.38±0.14b	1.38±0.04b
Bicarbonate (mg/l)	0.97±0.40a	1.43±0.06a	1.03±0.06a
Dissolved oxygen (mg/l)	6.71±0.01c	5.96±0.11a	6.26±0.03b
Biochemical Oxygen Demand (mg/l)	153.37±0.78b	148.80±0.20a	157.13±1.21c

Note: Data mean±Standard Deviation (n=3). Different alphabets along the row indicate significant difference (P<0.05) according to Duncan multiple range test statistics