

Table 1 Ranges of the water quality parameters of Lower Ogun River at Abeokuta

Parameters	This Study, 2015	Ojekunle et al., 2014	Adeosun et al., 2014	Taiwo et al., 2014	Olayinka et al., 2013	Dimowo, 2013	Ikotun et al., 2012	Awoyemi, 2012	Osunkiyesi, 2012	Adeogun et al., 2011
W-T (°C)	25.85-32.3	24.3-27.5	24-30.7	26.8-27	27.87-29.5	26.9-32.1	23.7-31.7	29-31	27-32	24.5-32
TRANS (cm)	14-88.75	NA	53-100	NA	NA	20-70	NA	98-173	NA	NA
COND (µS/cm)	127-377	NA	140-190	103.7-105	412.67-514.67	99-180.5	NA	150-388	NA	725.19-3400
TDS (mg/L)	63.5-189	690-7000	70-95	46-48	93.33-95	48.8-90.8	NA	75-194	438-448	346.05-757.03
NO ₃ ⁻ (mg/L)	0.02-47.5	35-205	0.235-5.445	0.4-0.9	1.85-2.13	0.6-113.4	0.66-3.91	20.49-63.42	NA	12.28-89.43
NO ₂ ⁻ (mg/L)	0.03-0.4	NA	NA	NA	NA	NA	NA	NA	0.65-0.69	NA
PO ₄ ⁻ (mg/L)	1.75-28	52-250	0.02-0.75	NA	2.68-3.26	0-0.1	0.19-2.0	0.035-0.583	NA	1.85-18.62
DO (mg/L)	5.51-6.72	0.1-8.82	4.12-5.32	5.5-6.0	3.7-4.75	2.8-7.7	3.9-7.7	1.88-5.52	NA	0-11.27
COD (mg/L)	4-678.5	350-2500	NA	NA	88.33-111.67	NA	NA	NA	NA	181.5-1374.91
pH	8.36-9.91	6.14-7.3	7.45-9.73	7.92-7.96	6.37-7.1	7.7-9.1	6.5-7.7	6.5-7.95	7.6-7.72	5.5-8.8
TSS (mg/L)	0-49	NA	NA	79-95	2.79-5.32	NA	52.9-107.5	NA	446.00-448.09	822.93-1495.47
TA (mg/L)	3.75-10	NA	4.5-14.5	0.1-0.1	NA	4.4-17.8	NA	NA	42.9-43.6	NA
TH (mg/L)	2.6-6.4	NA	NA	41-50	NA	45.5-105	NA	NA	36.1-38.1	NA
Cl ⁻ (mg/L)	24.99-25	380-1990	NA	NA	NA	NA	29.3-104.5	NA	8.98-9.86	15.33-183.58
Fe ⁺ (mg/L)	0.05-1.53	NA	NA	0.3-0.4	1.37-1.73	NA	0.12-2.3	NA	13800-16100	NA
Mn ⁺ (mg/L)	0.03-0.66	NA	NA	NA	NA	NA	0-1.0	NA	289-466	NA

Note: W-T = Water temperature; pH = Hydrogen ion concentration; COND = Electrical Conductivity; TDS = Total Dissolved Solids; TRANS = Water Transparency; Fe⁺ = Iron; NO₂⁻ = Nitrite; NO₃⁻ = Nitrate; Mn⁺ = Manganese; SiO₃⁻ = Silicate; PO₄ = Phosphates; Cl⁻ = Chloride; TA = Total Alkalinity; TH = Total Hardness; COD = Chemical Oxygen Demand; TSS = Total Suspended Solids; DO = Dissolved Oxygen