



DAVIS & SHIRTLIFF

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P.O. Box 41762-00100, Nairobi, Kenya • Tel: (+254) 0711 079242, 0730 079242 • mombasalaboratory@davisandshirliff.com

**WATER PUMPS
SOLAR EQUIPMENT
BOREHOLE SERVICE
WATER TREATMENT
DIGITAL ENGINEERING
GENERAL MACHINERY
SWIMMING POOLS
IRRIGATION
CHEMICALS**

D&S MOMBASA LABORATORY WATER ANALYSIS REPORT

Client Name : Tiffi's Beach House					Reference No : 03/25/DNSLBMO/0012		Date Received : 20/03/2025	
Site Location : Kilifi					Water Source : Shallow well		Analysis Date : 20/03/2025	
Type of Test : Physiochemical Water Analysis					Sampling Date : 19/03/2025		Report Date : 21/03/2025	
Key:	Pass		Fail		NS - No Standard	ND - Not Detected	TN - Too Numerous	
Parameters			Method of Analysis		Units	Values	WHO guidelines	Remarks

Physical Analysis

pH	8156	pH Units	7.04	6.5 - 8.50	
TDS	10256	Mg/l	18810	<1000	
Total Suspended Solids(TSS)	8006	Mg/l	8	NIL	
Salinity	8160	ppt	13.25	NS	
Electrical Conductivity(EC)	10256	µS/cm	26490	<1500	
Turbidity	8237	NTU	6.0	<5	
Color	8025	PtCo	13	<15	

Chemical Analysis

Iron, Fe	8008	Mg/l Fe	0.18	<0.30	
Manganese, Mn	8149	Mg/l Mn	0.17	<0.10	
Copper, Cu	8506	Mg/l Cu	4.18	<2.0	
Fluoride	8323	Mg/l F	1.5	<1.5	
Ammonical Nitrogen	8155	NH3-N	0.01	NS	
Ammonium	8155	NH4+	0.01	<1.5	
Ammonia	8155	NH3	0.01	<2.0	
Nitrate N	8039	Mg/l NO3N	4.5	<11.3	
Nitrate	8039	NO3-	20	<50	
Nitrite	8153	Mg/l NO2	1	<3	
Nitrite N	8153	Mg/l NO2-N	0.3	<1	
Potassium	8049	Mg/l K	141	<50	
Phosphate	8048	Mg/l PO4 ³⁻	0.21	<0.61	
Silicon	8185	Mg/l	2	< 50	
Silica	8185	Mg/l SiO2	5	<107	
Calcium	8204	Mg/l Ca2+	452	<150	
Magnesium	8213	Mg/l Mg2+	517	<100	
Calcium Hardness	8204	Mg/l Ca2+ (CaCO3)	1130	NS	
Magnesium Hardness	8213	Mg/l Mg2+ (CaCO3)	2120	NS	
Total Hardness	8213	Mg/l CaCO3	3250	<300	
Aluminium, Al	8012	Mg/l Al	0.03	<0.10	
Sulphate, SO4	8051	Mg/l SO4	1440	<400	
Chloride	8207	Mg/l Cl	8830	<250	
Total Alkalinity	8203	Mg/l CaCO3	340	NS	
Phenolphthalein Alkalinity	8204	Mg/l CaCO3	ND	NS	
Bicarbonate	8205	Mg/l HCO3-	340	<255	
Carbonate	8206	Mg/l CO3 ²⁻	0	<121	
Barium	8014	Mg/L Ba2+	0	<0.7	
Sodium, Na	8322	Mg/l Na	5570	<200	

Water Analysis Comments

Based on the water analysis, the TDS, TSS, EC, Turbidity, Manganese, Copper, Fluoride, Potassium, Calcium ion, Magnesium ion, Total Hardness, Sulphate, Chloride, Bicarbonate and Sodium levels did not conform to WHO drinking water guidelines.

The results relate to the sample(s) submitted. The laboratory will not be held responsible for any sampling errors.

Analyzed by : Steve Onyango		Authorized by: John Waema	
Sign:	Date: 21/03/2025	Sign:	Date: 21/03/2025

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DIRECTORS: A R DAVIS, M ELDON, D GATENDE, G MBUGUA, A WANGONDU, E DAVIS, P HOLI, H DAVIS

