



**NATIONAL WATER QUALITY LABORATORY
TOWER HILL
FREETOWN**

**TEL 079-319-526/079-317-532
MINISTRY OF WATER RESOURCES
TOWER HILL
FREETOWN**



Water Quality Monitoring Report Sheet

Water Authority:.....ECOWATER Company.....

District:...W/Area..... Chiefdom:..... Town:...Freetown..... Date:...26/10/15.....

Sample:...02.. Location:...ACF 002 Saint Luke Congo Water..... Type: of Source:...Bore Hole.....Time:.....

Parameters		Measured Values	WHO recommended Permissible Limits
1.	Water Temperature (°C)	26.8	No. Value
2.	pH	7.6	6.5 – 8.5
3.	Turbidity (NTU)	1.9	<5.0
4.	Conductivity (µS/Cm)	274	<450 µS
5.	TDS (ppm)	137	<248
6.	Salinity (ppt)	-	<0.4
7.	Residual Chlorine (mg/l)	0.00	0.3-0.5 after 30min. disinfection
8.	Aluminum (mg/l)	0.19	<0.2
9.	Ammonia (mg/l)	0.01	No. Value
10.	Bromine (mg/l)	-	No. value
11.	Calcium Hardness (mg/l)	29.1	<250
12.	Copper (mg/l)	0.023	<1.0
13.	Fluoride (mg/l)	-1.54	<1.5
14.	Iron (mg/l)	0.32	<0.3
15.	Magnesium (mg/l)	-	<200
16.	Manganese (mg/l)	-0.011	<0.1
17.	Molybdenum (mg/l)	0.01	0.25
18.	Nitrite (mg/l)	-0.002	3.0
19.	Nitrate-Nitrogen (mg/l)	1.5	<10

20.	Potassium (mg/l)	1.6	<6.0
21.	Phosphate (mg/l)	2.07	<20
22.	Silica (mg/l)	-0.013	<15
23.	Sulphate (mg/l)	-	<400
24.	Sulphide (mg/l)	0.010	<0.5
25.	Sulphite (mg/l)	-	No. Value
26.	Chloride (mg/l)	15	<250
27.	Arsenic	0.00	0.01
28.	Chromium	0.024	<0.05
29.	Bicarbonate (mg/l)	0	No. Value
30.	Zinc (mg/l)	0.03	<5.0
31.	E. Coli	-	Zero
32.	Faecal Coliforms	Nil	Zero
33.	Non – Faecal Coliforms	Nil	10
34.	Vibro-parahaemolyticus	-	Zero
35.	Salmonella sp.	-	Zero

RECOMMENDATIONS:- The physical/chemical analysis of this source indicate that all the parameters are within the WHO limits, except for Iron which is slightly above its WHO limits.

Bacteriological analysis shows that this source is free from bacteria pollution. However, chlorination process is necessary with a free chlorine content of 0.3mg/l – 0.5mg/l which is the WHO guideline for Potable Water.

Signed:.....

(Technician)



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(Supervisor)

Date:.....