



**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:.....EDAL Drilling Company SL.....
.....35^a Clewry's off Main Motor Road Congo-Cross Road
District:...W/Area..... Chiefdom:..... Town:...Freetown..... Date:...27th /01/2016.....
Sample:.01.. Location:..Leicester Hospital.. Type: of Source:...Bore Hole ..Time:..

Parameters		Measured Values	WHO recommended Permissible Limits
1.	Water Temperature (°C)	28.9	No. Value
2.	pH	7.8	6.5 – 8.5
3.	Turbidity (NTU)	0.8	<5.0
4.	Conductivity (µS/Cm)	306	<450 µS
5.	TDS (ppm)	153	<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.	Total Hardness (mg/l)	-	<500
	Calcium Hardness (mg/l)	10	,250
12.	Copper (mg/l)	0.018	<1.0
13.	Fluoride (mg/l)	0.01	<1.5
14.	Iron (mg/l)	0.04	<0.3
15.	Magnesium (mg/l)	-	<200
16.	Manganese (mg/l)	0.002	<0.1
17.	Molybdenum (mg/l)	0.01	0.25
18.	Nitrite (mg/l)	0.2	3.0
19.	Nitrate-Nitrogen (mg/l)	1.0	<10

20.	Potassium (mg/l)	3.7	<6.0
21.	Phosphate (mg/l)	6.31	<20
22.	Silica (mg/l)	0.002	<15
23.	Sulphate (mg/l)	-	<400
24.	Sulphide (mg/l)	0.05	<0.5
25.	Sulphite (mg/l)	-	No. Value
26.	Chloride (mg/l)	7.3	<250
27.	Arsenic	0.00	0.01
28.	Chromium	0.031	<0.05
29.	Bicarbonate (mg/l)	0	No. Value
30.	Zinc (mg/l)	2.24	<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 physico/chemical analysis of this source indicate that all the parameters are within the WHO permissible limits.

Bacteriologically, the source is free from faecal bacteria as of now. 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)

(Supervisor)

Date:.....





Government of Sierra Leone

NATIONAL WATER QUALITY LABORATORY TOWER HILL FREETOWN

TEL: 079-319-529/079-317-532
**MINISTRY OF WATER RESOURCES WATER SUPPLY
DIVISION**

Water Quality monitoring Report Sheet

Water Authority:.....German Drilling Group.....
.....18 Chorlotte Street Freetown

District:... W/Area....Chiefdom:.....Town:.....Kent.....Date: 3/05/2016.....

Sample No.:...03...Location:...Kent..Type of Source: ...Bore Hole.... Time:...

Parameters		Measured Values	WHO recommended Permissible Limits
1.	Water Temperature (°C)	29.7	No. Value
2.	PH	7.6	6.5 – 8.5
3.	Turbidity (NTU)	29	<5.0
4.	Conductivity (µS/cm)	484	<450
5.	TDS (mg/l)	242	<248
6.	Salinity (ppt)	-	<0.4
7.	Residual Chlorine (mg/l)	0..0	0.3-0.5 after 30min. disinfections
9.	Aluminium (mg/l)	0.26	<0.2
10.	Ammonia (mg/l)	0.03	No. Value
11.	Bromine (mg/l)	-	No. Value
12.	Calcium Hardness (mg/l)	100	<250
13.	Copper (mg/l)	0.108	<2.0
14.	Fluoride (mg/l)	0.027	<1.5
15.	Iron (mg/l)	0.08	<0.3
16.	Magnesium (mg/l)	-	<200

17.	Manganese (mg/l)	0.047	<0.4
18.	Molybdenum (mg/l)	0.08	0.25
19.	Nitrite (mg/l)	2.2	3.0
20.	Nitrate – Nitrogen (mg/l) HR	0.1	<10
21.	Potassium (mg/l)	0.2	<6.0
22.	Phosphate (mg/l) LR	0.012	<20
23.	Silica (mg/l)	0.08	<15
24.	Sulphate (mg/l)	-	<400
25.	Sulphide (mg/l)	0.069	<0.5
26.	Sulphite (mg/l)	-	No. Value
27.	Chloride (mg/l)	80	<250
28.	Arsenic (mg/l)	0.00	0.01
29.	Chromium	0.021	<0.05
30.	Bicarbonate (mg/l)	0	No. Value
31.	Zinc (mg/l)	0.56	<5.0
32.	E. Coli	-	Zero
33.	Faecal Coliforms	Nil	Zero
34.	Non-Faecal Coliforms	8	<10
35.	Vibro-parahaemolyticus	-	Zero
36.	Salmonella sp.	-	Zero

RECOMMENDATION/COMMENTS: - The Physico/Chemical analysis of this source monitored indicates that parameters tested are within the WHO recommended Standard for Drinking Water, except for Conductivity, TDS, Aluminium and Turbidity which are above their WHO limits..

Bacteriologically, the source is free from 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)



.....
(Supervisor)

Date:.....



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Water Quality Monitoring Report Sheet

Water Authority:.....EDAL Drilling Company SL.....
.....35^a Clewry's off Main Motor Road Congo-Cross Road
District:.. W/Area..... Chiefdom:..... Town:..Freetown..... Date:..5th /1/16

Sample:..01.. Location:..Wilberforce .. Type: of Source:..Bore Hole ..Time:..

Parameters		Measured Values	WHO recommended Permissible Limits
1.	Water Temperature (°C)	26.5	No. Value
2.	pH	7.6	6.5 – 8.5
3.	Turbidity (NTU)	1.2	<5.0
4.	Conductivity (µS/Cm)	322	<450 µS
5.	TDS (ppm)	161	<248
6.	Salinity (ppt)	-	<0.4
7.	Residual Chlorine (mg/l)	0.01	0.3-0.5 after 30min. disinfection
8.	Aluminum (mg/l)	0.18	<0.2
9.	Ammonia (mg/l)	0.01	No. Value
10.	Bromine (mg/l)	-	No. value
11.	Calcium Hardness (mg/l)	15	,250
12.	Copper (mg/l)	0.70	<1.0
13.	Fluoride (mg/l)	0.84	<1.5
14.	Iron (mg/l)	0.27	<0.3
15.	Magnesium (mg/l)	-	<200
16.	Manganese (mg/l)	0.051	<0.1
17.	Molybdenum (mg/l)	0.02	0.25
18.	Nitrite (mg/l)	0.1	3.0
19.	Nitrate (mg/l)	1.0	<10
20.	Potassium (mg/l)	1.1	<6.0

21.	Phosphate (mg/l)	3.2	<20
22.	Silica (mg/l)	5.96	<15
23.	Sulphate (mg/l)	-	<400
24.	Sulphide (mg/l)	0.5	<0.5
25.	Sulphite (mg/l)	-	No. Value
26.	Chloride (mg/l)	25	<250
27.	Arsenic	0.00	0.01
28.	Chromium	0.031	<0.05
29.	Bicarbonate (mg/l)	0	No. Value
30.	Zinc (mg/l)	0.17	<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 physico/chemical analysis of this source indicate that all the parameters are within the WHO permissible limits.

Bacteriologically, the source is free from faecal bacteria as of now. 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)



(Supervisor)

Date:.....