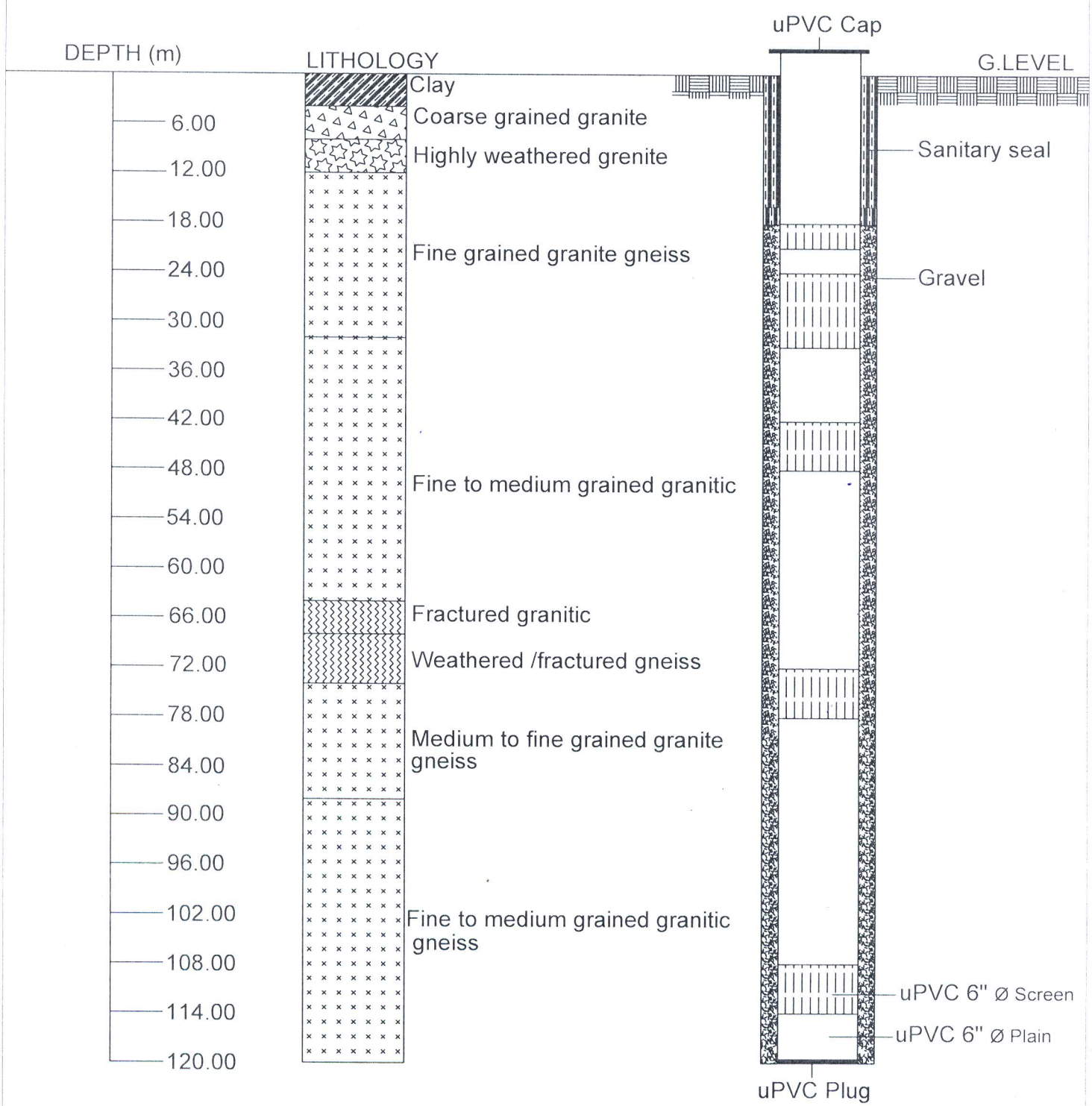
BOREHOLE TAB. 257/2015 (DDCA) AT NKOKOTO-URAMBO TABORA
M/S. MICHHAMPTON



KARMEL CONTRACTORS AND SUPPLIERS LIMITED

Dealers Consultation services on Water Quality Testing, Geophysical Survey, Drilling, Pump Testing, Well Construction and General Suppliers

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Water Quality Report

Date: **06.01.2016**

Analysis requested by (Client) M/S. **CEO – DDCA.** **Date of sample collected: 25/12/2015**

Sample Code No: **2/016** Date received at the Laboratory**: 02.01.2016**

Water sources: **B/Hole. No. TBR 257/2015** Place: **Nkokoto – Urambo Tabora** Purpose**: Domestic use**

Physical & Chemical Parameters	**Concentration**	**Unit**	**Tanzania National Standard**	**Remarks**
Turbidity	5.5	NTU	25	Good
pH	7.2		6.5 – 9.2	Good
Colour	NIL	mgPt/L	50	Good
Electrical Conductivity	386	µS/cm	2000	Good
Total Dissolved Solids	193	mg/1	500 – 1500	Good
Odour	NO	TON	No Offensive	Not objectionable
Taste	NO		No Offensive	Not objectionable
Phenolphthalein Alkalinity	NIL	$mgCaCO_3/l$	n.m	
Total Alkalinity	85	$mgCaCo_3/l$	n.m	
Carbonate Hardness	85	$mgCaCO_3/l$	n.m	
Non Carbonate Hardness	15	$mgCaCO_3/l$	n.m	
Total Hardness	100	$mgCaCO_3/l$	600	Good
Calcium	20	mg/I	300	Good
Magnesium	12.16	mg/I	100	Good
Manganese	NIL	mg/I	0.5	Good
Zinc	NIL	mg/l	15	Good
Iron	NIL	mg/I	1.0	Good
Chloride	62.125	mg/I	800	Good
Sulphate	34.56	mg/I	600	Good
Nitrate	2.4	mg/I	75	Good
Sodium	42.78	mg/I	n.m	
Potassium	0.96	mg/I	n.m	
Orthophosphate	0.42	mg/I	n/m	
Fluoride	0.31	mg/I	4.0	Good
Ammonical Nitrogen	0.02	mg/l	1.0	Good
MICROBIOLOGICAL ASPECTS				
BACTERIOLOGICAL PARAMETERS	**Count/100ml**	**Count/100ml**	**0 count/100ml**	
Total Coliform	ND		NIL	ND
Faecal Coliform	ND		NIL	ND
Faecal Strepotococci	ND		NIL	ND
Chlorine Residual	ND		0.3 – 0.5	ND

N.M = Not Mentioned **NA**= Applicable **ND** = Not Determined

RECOMMENDATION: According to Tanzania National standards for water quality, the water is physically and chemically suitable for domestic use from the above tested parameters. Regular monitoring is recommended.

Signature .....

Initials: **V. A. KAZINJA**

Position: **HEAD OF WATER LABORATORY**

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