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16/10/2024

26/10/2024

ISO 17025:2017 COMPANY

OCTOBER 31ST, 2024

Description of Sample: **BOREHOLE WATER**

KILGORIS - NAROK COUNTY Sample Source: Subr

San

nitted By: SHANKOE COMMUNITY BOREHOLE		Date of Analysis:		26/10/2024		
stomer Contact:	Betterline Water Ltd		Date of Report Issue	:	31/10/2024	
impled By:	CLIENT		Sample ID:		S0513-30324	
RAMETERS	METHOD	VALUES	KS EAS 12:2018	WHO STANDARD	REMARKS	
		1112020	NATURAL WATER			

Date of Sampling:

Date Sample Received:

PARAMETERS	METHOD	VALUES	KS EAS 12:2018 NATURAL WATER SPECIFICATION	WHO STANDARD	REMARKS
PHYSIO-CHEMICAL ANALYSIS					
pH (pH Units pH)	AQL/TM/HACH/8156	6.52	5.5 - 9.5	NS	PASS
Colour (Pt. Co. APHA Colour)	AQL/TM/HACH/8025	15	50	NS	PASS
Turbidity (NTU TUB)	AQL/TM/CHEM/10	3.37	25	NS	PASS
Total Suspended Solids (mg/L TSS)	AQL/TM/HACH/8006	ND	ND	NIL	PASS
Total Dissolved Solids (mg/L TDS)	AQL/TM/HACH/8160	78.0	1500	NS	PASS
Electrical Conductivity (uS/cm EC)	AQL/TM/HACH/8160	166.3	2500	NS	PASS
P Alkalinity (mg/L CaCO3 PA)	AQL/TM/HACH/ISO/9963-1:1994	ND	NS	NS	-
Total Alkalinity (mg/L CaCO3 TA)	AQL/TM/HACH/ISO/9963-1:1994	61.7	NS	NS	-
Chloride (mg/L CI)	AQL/TM/HACH/ISO/9297:2000	8.9	250	NS	PASS
Fluoride (mg/L F) ✓	AQL/TM/HACH/8323	0.60	1.5	1.5	PASS
Sulfate (mg/L SO4)	AQL/TM/HACH/8051	< 2	400	NS	PASS
Nitrate (mg/L NO3)	AQL/TM/HACH/8358	1.7	45	50	PASS
Phosphate (mg/L PO4)	AQL/TM/HACH/8114	0.20	2.2	NS	PASS
Sodium (mg/L Na)	AQL/TM/APHA/3111B	34.2	200	NS	PASS
Calcium (mg/L Ca) √	AQL/TM/CHEM/07	14.01	150	NS	PASS
Magnesium (mg/L Mg) ✓	AQL/TM/CHEM/07	3.64	100	NS	PASS
Iron (mg/L Fe)	AQL/TM/APHA/3111B	0.091	0.3	NS	PASS
Manganese (mg/L Mn)	AQL/TM/APHA/3111B	0.059	0.1	-	PASS
Ammonia (mg/L NH3)	AQL/TM/HACH/10001	0.09	0.5	NS	PASS
Copper (mg/L Cu)	AQL/TM/APHA/3111B	< 0.04	1.0	2.0	PASS
Zinc (mg/L Zn)	AQL/TM/APHA/3111B	0.12	5.0	NS	PASS
Calcium Hardness (mg/L CH) ✓	AQL/TM/CHEM/07	35	NS	NS	-
Magnesium Hardness (mg/L MH) ✓	AQL/TM/CHEM/07	15	NS	NS	-
Total Hardness (mg/L TH) ✓	AQL/TM/CHEM/07	50	600	NS	PASS
Silica HR (mg/L SiO2)	AQL/TM/HACH/8185	48.9	NS	NS	-

KS EAS 153:2018 - Packaged Drinking Water — Specification, KS EAS 12:2018 - Potable Water — Specification, ANSI/AAMI/ISO 23500-3:2019 - Preparation and quality management of fluids for haemodialysis and related therapies — Part 3: Water for haemodialysis and related the part of the therapies, EMCR 2006 -Environmental Management and Co-ordination (Water Quality) Regulations 2006, WHO 4th EDITION - World Health Organization Guidelines for Drinking - Water Quality. ISE - Ion Selective Electrode, NS - No Set Standard, ND - Not Dete Numerous, Parameters marked with (*) are Subcontracted while (*/*) are Accredited.

The test report shall not be reproduced except in full without writen approval from Aqualytic Laboratories Limited. The laboratory will not be held responsible for any sampling error(s) unless sampled by the laboratory personnel. The results relate only to the sample(s) submitted. Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account except when requested by the customer. The Uncertainty of Measurements applied does not take into account the Sampling aspect for this sample Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications.

FAIL - Results exceed limits/specifications

COMMENTS

Based on the tested parameters only, the water sample was found to conform to the Borehole Water (KS EAS 12:2018 NATURAL WATER SPECIFICATION)







MUGUN KIPCHUMBA TECHNICAL MANAGER

