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MINISTRY OF INTERIOR AND NATIONAL ADMINISTRATION

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Ref. No. P/WATER/WQ/VOL.10/173/2026.

Government Chemist's Department
Kisumu Laboratory
P.O. Box 2006-40100
KISUMU
Date: 22/07/2026.

CERTIFICATE OF ANALYSIS

Report No. : W173B/2026

Date Received: 15/07/2026

Sender: MUMONI EXPRESS LIMITED.

Sender's Reference: NAKOLONYOI COMMUNITY WATER PROJECT: YAPAKUNO AREA, TURKANA NORTH
SUB COUNTY, TURKANA COUNTY.

Description of Sample: BOREHOLE WATER IN A PLASTIC BOTTLE.

Examination Required: PHYSICO-CHEMICAL ANALYSIS.

Analytical Report:

Parameter	Results	Tolerance Limit (Natural, Potable) (KS EAS 12:2018)	Remark	Method Of Test
<u>PHYSICO-CHEMICAL</u>				
1. pH (at 23.2°C)	7.05	5.5 – 9.5	Compliant	KS ISO 10523
2. Turbidity (NTU)	9.7	25	Compliant	KS ISO 7027
3. Colour (True) (CU)	0.000	50	Compliant	KS ISO 7887
4. Chloride (mg/L Cl ⁻)	71.62	250	Compliant	HACH ISE CL181
5. Nitrates (mg/L NO ₃ ⁻)	27.8	45	Compliant	HACH ISE NO3181
6. Nitrites (mg/L NO ₂ ⁻)	0.186	3.0	Compliant	KS ISO 6777
7. Sodium (mg/L Na ⁺)	0.197	200	Compliant	HACH ISE NA381
8. Iron (mg/L Fe ²⁺)	0.14	0.3	Compliant	KS ISO 6332
9. Fluorides (mg/L F ⁻)	0.198	1.5	Compliant	HACH ISE F181
10. Sulphates (mg/L SO ₄ ²⁻)	54	400	Compliant	KS ISO 22743
11. Total Alkalinity (mg/L CaCO ₃)	468	600	Compliant	APHA 2320-B
12. Total Hardness (mg/L CaCO ₃)	600	600	Compliant	KS ISO 6059
13. Conductivity (µS/cm, at 24.5°C)	2210	2500	Compliant	KS ISO 7887
14. Total Dissolved Solids (TDS) (mg/L)	1084	1500	Compliant	ASTM D 5907

Conclusion: Compliant with KS EAS 12:2018 allowable limits for parameter tested, hence hereby recommended for domestic use.

(Disclaimer: The results contained herein apply solely to the sample submitted by the client to our laboratory for analysis.)

DKK/DKK/ea




D. K. Kisang
Government Analyst