Final Report

Donor name: Fondation Eagle

Foundation Eagle reference number: FF 0730

Name of Charity: WellBoring (GB-CHC-1142295)

Introduction: Build 10 new wells to provide safe water in Kenya.

Date of grant accepted: 4th December 2024

Amount: The Fondation provided a grant of GBP 82254, of which GBP 3160 was returned to the Fondation on January 28th, 2025. This made a net investment by the Fondation of GBP 79094. GBP 6104 of the total was planned to be retained in the UK to fund UK based administration activities.

Conversion rate, date, & amount in local currency: Average actual conversion rate 1 GBP:157 KSh, (January 2025 – February 2025) = KSh 11459420. Budget conversion rate: 1 GBP:161 KSh.

Name and exact location of the project: The names and locations of each successful well that was drilled are listed below.

School Name	GPS Location	Beneficiaries
Chewoyet Primary	1.24965, 35.10264	4619
Napiz Primary	2.266543, 35.00878	2135
Sigor Primary	1.48001, 35.47000	3633
Woyakol Primary	2.311394,34.996250	2210
Kitale Primary	0.999072, 35.000556	6441
Kaloleni Primary	1.0800, 37.3900	3167
Mukuyuni Primary	1.0500, 37.4200	3570
Adado Primary	1.23333,35.1167	2341
Kapkai Primary	1.1700, 35.0200	3465
Korosiot Primary	1.1500, 35.0100	2451
		34122

Period of Project: December 2024 to March 2025.

Project beneficiaries: 34122 comprising 11260 pupils and staff, as well as 22862 people in the community. This is approximately 7000 more beneficiaries than estimated in the original File Form application, mostly due to the change of location of 6 of the wells.

Details of progress of the project, achievements, challenges, changes, differences etc, including photographs: Please see the following pages.

Fondation Eagle provided funding to allow WellBoring to develop borewells that provide safe water to ten schools, and their local communities: in West Pokot County and Trans Nzoia County, Kenya.

The project is now complete.

With this project, the Fondation has helped to provide clean, safe water to approximately 34000 people that were in desperate need. The ten schools were:

West Pokot County

- Chewoyet Primary School
- Napiz Primary School
- Sigor Primary School
- Woyakol Primary School

Trans Nzoia County

- Kitale Primary School
- Kaloleni Primary School
- Mukuyuni Primary School
- Adado Primary School
- Kapkai Primary School
- Korosiot Primary School

We can confirm that the funds were used correctly and for the purpose they were allocated.

In the original application were six other schools which were substituted with six new schools. We were granted permission to make this change by email on 21st February 2025. The affected schools are listed in the table below.

Old School Names	Old School Population	Community	New School Names	New School Population	Community
Genesis Academy	534	1642	Kitale Primary School	3457	2984
Kositot Primary	690	2345	Mukuyuni Primary School	1450	2120
Katich Primary	613	2223	Korosoit Primary School	631	1820

Old School Names	Old School Population	Community	New School Names	New School Population	Community
Nasal Primary	514	1612	Kapkai Primary School	1115	2350
Sasak Primary	562	2114	Adado Primary School	564	1867
Yotwo Primary	520	1560	Kaloleni Primary School	922	2245
Totals	3433	11496	Totals	8139	13386

Generally, both West Pokot and Trans Nzoia are characterised by rough roads which are poorly maintained. This was a major hindrance, more so in West Pokot where in some areas the drill rig could not get through. We managed to mobilise to the various sites as scheduled and drilled in accordance with the technical requirements of each site.

The initial phase of the drilling process encountered numerous challenges, ranging from inaccessible roadways to the complexities of deep drilling operations, including dry wells. These hurdles caused significant delays and complications, leading the team to request a change in location. Fortunately, this request was approved, and the project was moved from West Pokot to Trans Nzoia County.

Once the drilling efforts were relocated, the process proceeded much more smoothly. However, there were still a few obstacles, particularly with certain soil formations. In locations like Chewoyet and Kitale, the soil proved to be loose and unstable, preventing the use of PVC casings as originally planned. As a result, the team had to make a quick adjustment and opted for steel service casings instead, ensuring the integrity and safety of the drilling operations in these areas. Despite these challenges, the balance of the project was moved to Trans Nzoia County allowing for a much more efficient and effective execution of the project.

Installation of service casing at Chewoyet and Kitale School respectively.

Results: The following table summarises information about each of the wells.

School Name	Sub County	Contact Person	Contact Number	Static water Level	Yield per hour	Challenges
Chewoyet	West Pokot	Kenneth Kuywa	0725892496	7.3 m	4 m^3/hr	Loosely falling boulders / running sand - necessitated the use of steel casings
Napiz	West Pokot	Lucy Maina	0712332153	3.2 m	10 m^3/hr	
Sigor	West Pokot	Jackson Kadikam	0722741207	17.4 m	1.7 m^3/hr	
Woyakol	West Pokot	Rionoluk Paul	0718612814	4.0 m	7 m^3/hr	
Adado	Trans Nzoia	Jackson Peter	0713398588	12.3 m	5 m^3/hr	
Kaloleni	Trans Nzoia	Fatuma Omar	0726436381	14.3 m	2 m^3/hr	

School Name	Sub County	Contact Person	Contact Number	Static water Level	Yield per hour	Challenges
Kitale	Trans Nzoia	David Luganda	0720429872	2.3 m	6 m^3/hr	Loosely falling boulders / running sand - necessitated the use of steel casings
Mukuyuni	Trans Nzoia	Moses Loter	0713679689	13.5 m	3 m^3/hr	
Kapkai	Trans Nzoia	Merab Kalavu	0717985697	14.8 m	7 m^3/hr	
Korosiot	Trans Nzoia	Truphena Songol	0720030094	18.1 m	2.5 m^3/hr	

Children enjoying water from the newly constructed well at Sigor Primary

Challenges and Lessons Learnt: Like other boreholes drilling projects, we faced several challenges that are listed as below

1. At Chewoyet and Kitale, we faced a challenge with loose boulders and high-water levels, which destabilised the borehole. To address this, we used service casings for support. However, the boulders continued to press against the PVC casings, causing damage. As a result, we had to switch to steel casings for better durability and stability.
2. The project's sites are within poor marginalised rural areas where access roads to schools are very bad. Heavy rainfall being experienced in the area was also a hindrance factor during mobilisation and work.

Previous water access: None of the chosen schools had access to safe drinking water prior to the project being delivered. In the schools, pupils no longer carry water from their homes in bottles.

Project Outputs and Outcomes: The project has reached a total of over 11,000 pupils from 10 schools and over 22,000 villagers. In the targeted schools, pupils no

longer carry water from their homes in bottles. Other immediate results realised include improving cleanliness in classrooms and pupils - enhancing hand washing practices during critical hours.

The anticipated project outcomes are

1. reductions of waterborne diseases
2. functioning health clubs
3. school gardening

All of which will significantly change attitudes at school and increase self-esteem among learners.

Water Quality Analysis: Upon completion of drilling, casing and gravelling of the boreholes, they were then developed through flushing (Process of using the scouring action of moving water to help rid a water supply of contaminants). Water samples were then collected on a one litre bottle and sent to the government laboratory for testing.

Having met the KEBS standards for drinking water, in Annex A to this report, please find a copy of the water analysis report from each of the ten schools.

Pad Construction: Upon receiving the water analysis reports, proving that the water is suitable for human consumption, we moved into the next and last phase of the project which entailed the pad construction and pump installation of the boreholes. The well was thereafter handed over to the schools under the respective identified water committees.

Below, is a photograph of one of the plinths under construction and an ongoing pump installation.

Ongoing Pump Installation at the newly drilled borehole and pad construction at Napiz Primary

Detailed budgets and actual expenditure summary and comparison:

Financial breakdown: In summary, the Fondation provided a grant of GBP 82254, of which GBP 3160 was returned to the Fondation on January 28th, 2025. This made a net investment by the Fondation of GBP 79094. The final total costs attributable to the project were GBP 84555.

WellBoring funded the overspend of GBP 5461.

The detailed budget that was initially provided in our grant application is summarised in the table below. The budget was put together using an exchange rate of 1 GB Pound to 161 Kenyan Shillings. When the grant funding was converted to Kenyan Shillings that average actual exchange rate achieved was 1 GB Pound to 157 Kenyan Shillings.

Budget/actual expenditure comparison: The following table summarises the actual costs compared to the budget. The actual costs shown in the table are incurred in Kenyan Shillings.

Budget Line Items	Budget total values in GBP with contingency amortised	Actual total costs in GBP	Overspend / (underspend) total costs in GBP
Drilling personnel	10282	10545	263
Management/Professional fees	4816	7541	2725
Drill supplies	14005	15990	1985
Well supplies	17376	18901	1525
Well pad	540	499	(41)
Other direct costs	15904	14154	(1750)
Total	**62922**	**67630**	**4708**
Value Added Tax	10068	10821	753
Total in Kenya	**72990**	**78451**	**5461**
UK based administration costs	6104	6104	0
Project Total	**79094**	**84555**	**5461**

The following table addresses the significant overspends and (underspends).

Budget Line Items	Overspend / (underspend) as a percentage	Reason for overspend / underspend
Personnel	3% Over budget	The overspend was due to the work that was undertaken for the 6 wells that were abandoned when they were resurveyed, along with the 2 wells that were drilled and not finished because they were found to be dry.
Management/Professional fees	62% Over budget	This significant overspend was due to the costs associated with testing 6 extra wells. As a direct result of this experience WellBoring is investing in more modern technology for Groundwater testing/soil resistivity. This will reduce the probability of 'false positive' results in the future.
Drilling supplies	16% Over budget	This overspend was because of the 2 wells that were drilled and not finished because they were found to be dry. WellBoring's investment in more modern technology for Groundwater testing/soil resistivity will reduce the probability of this happening in the future.
Well supplies	16% Over budget	The overspend was due, predominantly, to the need to purchase extra steel casings for a number of the schools because of the unsuitability of some of the terrain for plastic piping.

On the following pages are tables that provide the details of both the budget and the actual costs incurred at each of the schools. In most cases the actual costs reflect the budget because total actual costs are allocated retrospectively.

	Budget per well (K.Sh.)	Adado	Kaloleni	Kitale	Mukulu
Director of projects	30,000	30,000	30,000	30,000	30,000
Project Coordinator (PIU)	22,100	22,100	22,100	22,100	22,100
Chief Driller	20,400	20,400	20,400	20,400	20,400
Driller/Welders/driver (4)	72,000	72,000	72,000	72,000	72,000
Office receptionist	6,000	6,000	6,000	6,006	6,000
Personnel	**150,500**	**150,500**	**150,500**	**150,506**	**150,500**
Accounting services	10,000	10,000	10,000	10,000	10,000
Groundwater testing/soil resistivity	60,500	60,000	60,000	60,000	60,000
Management/Professional fees	**70,500**	**70,000**	**70,000**	**70,000**	**70,000**
Drilling foam	13,000	13,000	13,000	13,000	13,000
Hydraulic Oil for Rig	15,000	15,000	15,000	15,000	15,000
Hammer/compressor oil	25,000	31,250	31,250	25,000	31,250
Diesel for Compressor use	123,500	119,700	119,700	137,600	119,700
Diesel Rig use (drilling) & Mud pump	28,500	28,500	28,500	36,550	28,500
Drilling Supplies	**205,000**	**207,450**	**207,450**	**233,400**	**207,450**
PVC Casing	143,750	156,400	156,400		156,400
Bleach	600	1,528	1,528	560	1,528
Hand pump & accessories	110,000	105,750	105,750	105,750	105,750
Service Casing				198,000	
Well Supplies	**254,350**	**263,678**	**263,678**	**305,278**	**263,678**
Cement	5,600	5,600	5,600	5,600	5,600
Wire Mesh (reinforcement)	2,000	1,950	1,950	1,950	1,950
Binding Wire	280	280	280	280	280
Well Pad	**7,900**	**7,830**	**7,830**	**7,830**	**7,830**
Office rental (1/5 space)/utility	8,600	8,540	8,540	8,540	8,540
email & phones	2,500	2,520	2,520	2,520	2,520
Equipment and supply mobilization	84,000	84,000	84,000	84,000	84,000
Support truck fuel to sites	10,000	10,000	10,000	10,000	10,000
Water Quality Analysis	10,100	10,080	10,080	10,080	10,080
Drillers' accommodation	50,000	50,000	50,000	50,000	50,000
Rig Depreciation	57,600	57,600	57,600	57,600	57,600
Annual Maintenance spares pack					
Other direct costs	**232,800**	**222,220**	**222,220**	**222,220**	**222,220**
Contingency 10%	92,000				
Sub Total Direct Costs	**1,013,050**	**921,678**	**921,678**	**989,228**	**921,678**
VAT 16%	162,088	147,468	147,468	158,276	147,468
Grand Totals	**1,175,138**	**1,069,146**	**1,069,146**	**1,147,504**	**1,069,146**

	Budget per well (K.Sh.)	Sigor	Chewoyet	Kapkai	Korosi
Director of projects	30,000	30,000	30,000	30,000	30,000
Project Coordinator (PIU)	22,100	22,100	22,100	22,100	22,100
Chief Driller	20,400	20,400	20,400	20,400	20,400
Driller/Welders/driver (4)	72,000	72,000	72,000	72,000	72,000
Office receptionist	6,000	6,000	6,000	6,000	6,000
Personnel	**150,500**	**150,500**	**150,500**	**150,500**	**150,500**
Accounting services	10,000	10,000	10,000	10,000	10,000
Groundwater testing/soil resistivity	60,500	60,000	60,000	60,000	60,000
Management/Professional fees	**70,500**	**70,000**	**70,000**	**70,000**	**70,000**
Drilling foam	13,000	13,000	13,000	13,000	13,000
Hydraulic Oil for Rig	15,000	15,000	15,000	15,000	15,000
Hammer/compressor oil	25,000	31,250	31,250	31,250	31,250
Diesel for Compressor use	123,500	119,700	119,700	119,700	119,700
Diesel Rig use (drilling) & Mud pump	28,500	28,500	28,500	28,500	28,500
Drilling Supplies	**205,000**	**207,450**	**207,450**	**207,450**	**207,450**
PVC Casing 10-foot lengths (5.0")	143,750	156,400		156,400	156,400
Bleach	600	1,528	1,528	1,528	1,528
Hand pump & accessories	110,000	105,750	105,750	105,750	105,750
Service Casing		49,500	214,500	49,500	33,000
Well Supplies	**254,350**	**313,178**	**313,178**	**313,178**	**296,678**
Cement	5,600	5,600	5,600	5,600	5,600
Wire Mesh (reinforcement)	2,000	1,950	1,950	1,950	1,950
Binding Wire	280	280	280	280	280
Well Pad	**7,900**	**7,830**	**7,830**	**7,830**	**7,830**
Office rental (1/5 space)/utility	8,600	8,540	8,540	8,540	8,540
email & phones	2,500	2,520	2,520	2,520	2,520
Equipment and supply mobilization	84,000	84,000	84,000	84,000	84,000
Support truck fuel to sites	10,000	10,000	10,000	10,000	10,000
Water Quality Analysis	10,100	10,080	10,080	10,080	10,080
Drillers' accommodation	50,000	50,000	50,000	50,000	50,000
Rig Depreciation	57,600	57,600	57,600	57,600	57,600
Annual Maintenance spares pack					
Other direct costs	**232,800**	**222,220**	**222,220**	**222,220**	**222,220**
Contingency 10%	92,000				
Sub Total Direct Costs	**1,013,050**	**971,178**	**979,778**	**971,178**	**954,678**
VAT 16%	162,088	155,388	156,764	155,388	152,748
Grand Totals	**1,175,138**	**1,126,566**	**1,136,542**	**1,126,566**	**1,107,426**

	Budget per well (K.Sh.)	Napiz	Woyakol	Contingency expenditure
Director of projects	30,000	30,000	30,000	30,000
Project Coordinator (PIU)	22,100	22,100	22,100	22,100
Chief Driller	20,400	20,400	20,400	20,400
Driller/Welders/driver (4)	72,000	72,000	72,000	72,000
Office receptionist	6,000	6,000	6,000	6,000
Personnel	**150,500**	**150,500**	**150,500**	**150,500**
Accounting services	10,000	10,000	10,000	
Groundwater testing/soil resistivity	60,500	60,000	60,000	484,000
Management/Professional fees	**70,500**	**70,000**	**70,000**	**484,000**
Drilling foam	13,000	13,000	13,000	26,000
Hydraulic Oil for Rig	15,000	15,000	15,000	30,000
Hammer/compressor oil	25,000	31,250	31,250	50,000
Diesel for Compressor use	123,500	119,700	119,700	247,000
Diesel Rig use (drilling) & Mud pump	28,500	28,500	28,500	57,000
Drilling Supplies	**205,000**	**207,450**	**207,450**	**410,000**
PVC Casing 10-foot lengths (5.0")	143,750	156,400	156,400	
Bleach	600	1,528	1,528	
Hand pump & accessories	110,000	105,750	105,750	
Service Casing		49,500	49,500	
Well Supplies	**254,350**	**313,178**	**313,178**	
Cement	5,600	5,600	5,600	
Wire Mesh (reinforcement)	2,000	1,950	1,950	
Binding Wire	280	280	280	
Well Pad	**7,900**	**7,830**	**7,830**	
Office rental (1/5 space)/utility	8,600	8,540	8,540	
email & phones	2,500	2,520	2,520	
Equipment and supply mobilization	84,000	84,000	84,000	
Support truck fuel to sites	10,000	10,000	10,000	
Water Quality Analysis	10,100	10,080	10,080	
Drillers' accommodation	50,000	50,000	50,000	
Rig Depreciation	57,600	57,600	57,600	
Annual Maintenance spares pack				
Other direct costs	**232,800**	**222,220**	**222,220**	
Contingency	92,000			
Sub Total Direct Costs	**1,013,050**	**971,178**	**971,178**	**1,044,500**
VAT 16%	162,088	155,388	155,388	167,120
Grand Totals	**1,175,138**	**1,126,566**	**1,126,566**	**1,211,620**

Follow up: The schools have started reporting reducing infection of waterborne diseases, improving cleanliness in classrooms and pupils as well as improved hand washing practices.

In all the schools, we introduced “health clubs” which will significantly change attitudes at school and increase self-esteem among pupils. Children were given the vision to influence their families, their communities, and the nation for better health.

In addition, we provided age-appropriate hygiene awareness for students and their family members, along with school leadership and teachers.

Conclusion: This project would be impossible without the co-operation and the willingness of the community. The readiness of the community is a crystal-clear sign that this project will last for ages. Giving the ownership to the locals will ensure the proper maintenance of this well. The evident need expressed by the community is also clear evidence that the community holds dear this water.

On behalf of the WellBoring Team in the UK and Kenya, and the men, women and children in Kenya benefitting from this clean water project, we thank Fondation Eagle for your life-changing support. Your contribution has directly helped improve the lives of over 11,000 learners, with over 20,000 more people from the larger community, and by helping each school access safe water, we are offering thousands of children the chance for a better future.

Signature and date:

A G Birch

26 May 2025

Contact details for WellBoring

Charity name: WellBoring

Charity registration number: GB-CHC-1142295

Charity registered address: 51 St Mary Street, Chippenham, Wiltshire, SN15 3JW, United Kingdom

Charity bank details: NatWest Bank plc, Sort Code: 522130. Account: 24302392. IBAN: GB33NWBK52213024302392

Office hours: 09.00 to 17.00 UK time

Contact email address: trusts@wellboring.com

Contact telephone number: +44 7785 280724

Annex A

Water quality analysis reports

Water quality analysis laboratory results from Adado Primary School

FORM F/9/1/3

WATER RESOURCES AUTHORITY

Water Resources Authority
LVSBA Regional Office
P.O. Box 666 - 40100, Kisumu
Tel:057072025493
Email: kisumuro@gmail.com

Kisumu Water Quality Laboratory
P.O. Box 666-40100, Kisumu
Tel: 057072025493
Email: kisumuro@gmail.com

Physical-Chemical & Bacteriological Laboratory Results Certificate

Report Issue Date:	21/5/2025	**Sample No:**	477	**Year:**	2025
Name of Customer:	WELLBORING	**Date Received:**	20/5/2025		
Address:		**Date of Sampling:**	19/5/2025		
Telephone Number:		**Type of Sample:**	Potable water		
Sample submitted by:	Wellboring	**Source of sample:**	Adado Primary School, Trans Nzoia County		
Purpose of sampling:	Water Quality Assessment	**Received by:**	Atieno		

PARAMETERS	UNIT	ANALYTICAL METHOD	RESULTS	KS EAS 12:2018 STANDARDS (MAX.)
Temperature	°C			-
pH	pH Scale	APHA 4500-H^+ B	**7.17**	6.5-8.5
Colour	mgPt L^{-1}	APHA 2120 B	**7.5**	15
Turbidity	N.T.U	APHA 2130 B	**4.42**	5
Conductivity (25° C)	µS cm^{-1}	APHA 2510 B	**837**	2500
Chloride	mg L^{-1}	Photometric	**8**	250
Iron	mg L^{-1}	APHA 3500-Fe B	**0.1**	0.3
Manganese	mg L^{-1}	APHA 3500-Mn B	**0.001**	0.1
Total Hardness	mg$CaCO_3L^{-1}$	APHA 2340 C	**78**	300
Total Alkalinity	mg$CaCO_3L^{-1}$	APHA 2320 B	**164**	500
Fluoride	mg L^{-1}	APHA 4500-F^- C	**0.02**	1.5
Nitrate	mgNO_3^- L^{-1}	APHA 4500-NO_3^-D	**1.68**	45
Sulphate	mg L^{-1}	APHA 4500-SO_4^{2-} E	**3.5**	400
Total Dissolved Solids	mg L^{-1}	APHA 2510 A	**418**	1500

**Maximum limits for treated potable water; **WHO maximum guideline value; APHA: American Public Health Association (2005) - Standard methods for the examination of water & wastewater*

Comments: The water sample performed as shown above. Based on the analyzed parameters water is within the KEBS standards for drinking water.

.....
O. Akello
Laboratory Analyst

.....
C. Onyango
Water Quality and Pollution Control Officer

Issued by .....
BASIN AREA COORDINATOR

WATER RESOURCES AUTHORITY
LAKE VICTORIA SOUTH BASIN AREA
P.O. Box 666 - 40100, KISUMU
TEL: 057 2025493

The results contained herein apply to the particular sample(s) tested, whose sample number and tests carried out are as detailed in these results. The information contained here reflects the laboratory's findings as at the time of analysis and based on the samples submitted by the client.

Water quality analysis laboratory results from Chewoyet Primary School

FORM F/9/1/3

WATER RESOURCES AUTHORITY

Water Resources Authority
LVSBA Regional Office
P.O. Box 666 - 40100, Kisumu
Tel:057072025493
Email: kisumuro@gmail.com

Kisumu Water Quality Laboratory
P.O. Box 666-40100, Kisumu
Tel: 057072025493
Email: kisumuro@gmail.com

Physical-Chemical & Bacteriological Laboratory Results Certificate

Report Issue Date:	21/5/2025	**Sample No:**	480	**Year:**	2025
Name of Customer:	WELLBORING	**Date Received:**	20/5/2025		
Address:		**Date of Sampling:**	19/5/2025		
Telephone Number:		**Type of Sample:**	Potable water		
Sample submitted by:	Wellboring	**Source of sample:**	Chewoyet Primary School, West Pokot County		
Purpose of sampling:	Water Quality Assessment	**Received by:**	Atieno		

PARAMETERS	UNIT	ANALYTICAL METHOD	RESULTS	KS EAS 12:2018 STANDARDS (MAX.)
Temperature	°C			-
pH	pH Scale	APHA 4500-H^+ B	**6.19**	6.5-8.5
Colour	mgPt L^{-1}	APHA 2120 B	**10**	15
Turbidity	N.T.U	APHA 2130 B	**5**	5
Conductivity (25° C)	µS cm^{-1}	APHA 2510 B	**307**	2500
Chloride	mg L^{-1}	Photometric	**8.22**	250
Iron	mg L^{-1}	APHA 3500-Fe B	**0.1**	0.3
Manganese	mg L^{-1}	APHA 3500-Mn B	**0.01**	0.1
Total Hardness	mg$CaCO_3L^{-1}$	APHA 2340 C	**52**	300
Total Alkalinity	mg$CaCO_3L^{-1}$	APHA 2320 B	**108**	500
Fluoride	mg L^{-1}	APHA 4500-F^- C	**0.1**	1.5
Nitrate	mgNO_3^- L^{-1}	APHA 4500-NO_3^-D	**1.88**	45
Sulphate	mg L^{-1}	APHA 4500-SO_4^{2-} E	**3.0**	400
Total Dissolved Solids	mg L^{-1}	APHA 2510 A	**156**	1500

**Maximum limits for treated potable water; **WHO maximum guideline value; APHA: American Public Health Association (2005) - Standard methods for the examination of water & wastewater*

Comments: The water sample performed as shown above. Based on the analyzed parameters water is within the KEBS standards for drinking water.

.....
O. Akello
Laboratory Analyst

.....
C. Onyango
Water Quality and Pollution Control Officer

Issued by .....
BASIN AREA COORDINATOR

WATER RESOURCES AUTHORITY
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P.O. Box 666 - 40100, KISUMU
TEL: 057 2025493

The results contained herein apply to the particular sample(s) tested, whose sample number and tests carried out are as detailed in these results. The information contained here reflects the laboratory's findings as at the time of analysis and based on the samples submitted by the client.

Water quality analysis laboratory results from Kaloleni Primary School

FORM F/9/1/3

WATER RESOURCES AUTHORITY

Water Resources Authority
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Kisumu Water Quality Laboratory
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Email: kisumuro@gmail.com

Physical-Chemical & Bacteriological Laboratory Results Certificate

Report Issue Date:	21/5/2025	**Sample No:**	475	**Year:**	2025
Name of Customer:	WELLBORING	**Date Received:**	20/5/2025		
Address:		**Date of Sampling:**	19/5/2025		
Telephone Number:		**Type of Sample:**	Potable water		
Sample submitted by:	Wellboring	**Source of sample:**	Kaloleni Primary School, Trans Nzoia County		
Purpose of sampling:	Water Quality Assessment	**Received by:**	Atieno		

PARAMETERS	UNIT	ANALYTICAL METHOD	RESULTS	KS EAS 12:2018 STANDARDS (MAX.)
Temperature	°C			-
pH	pH Scale	APHA 4500-H^+ B	**6.9**	6.5-8.5
Colour	mgPt L^{-1}	APHA 2120 B	**10**	15
Turbidity	N.T.U	APHA 2130 B	**4.9**	5
Conductivity (25° C)	µS cm^{-1}	APHA 2510 B	**613**	2500
Chloride	mg L^{-1}	Photometric	**8**	250
Iron	mg L^{-1}	APHA 3500-Fe B	**0.1**	0.3
Manganese	mg L^{-1}	APHA 3500-Mn B	**0.001**	0.1
Total Hardness	mg$CaCO_3L^{-1}$	APHA 2340 C	**56**	300
Total Alkalinity	mg$CaCO_3L^{-1}$	APHA 2320 B	**110**	500
Fluoride	mg L^{-1}	APHA 4500-F^- C	**0.04**	1.5
Nitrate	mgNO_3^- L^{-1}	APHA 4500-NO_3^-D	**1.78**	45
Sulphate	mg L^{-1}	APHA 4500-SO_4^{2-} E	**5.1**	400
Total Dissolved Solids	mg L^{-1}	APHA 2510 A	**307**	1500

**Maximum limits for treated potable water; **WHO maximum guideline value; APHA: American Public Health Association (2005) - Standard methods for the examination of water & wastewater*

Comments: The water sample performed as shown above. Based on the analyzed parameters water is within the KEBS standards for drinking water.

.....
O. Akello
Laboratory Analyst

.....
C. Onyango
Water Quality and Pollution Control Officer

Issued by .....
BASIN AREA COORDINATOR

WATER RESOURCES AUTHORITY
LAKE VICTORIA SOUTH BASIN AREA
P.O. Box 666 - 40100, KISUMU
TEL: 057 2025493

The results contained herein apply to the particular sample(s) tested, whose sample number and tests carried out are as detailed in these results. The information contained here reflects the laboratory's findings as at the time of analysis and based on the samples submitted by the client.

Water quality analysis laboratory results from Kapkai Primary School

FORM F/9/1/3

WATER RESOURCES AUTHORITY

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Physical-Chemical & Bacteriological Laboratory Results Certificate

Report Issue Date:	21/5/2025	**Sample No:**	476	**Year:**	2025
Name of Customer:	WELLBORING	**Date Received:**	20/5/2025		
Address:		**Date of Sampling:**	19/5/2025		
Telephone Number:		**Type of Sample:**	Potable water		
Sample submitted by:	Wellboring	**Source of sample:**	Kapkai Primary School, Trans Nzoia County		
Purpose of sampling:	Water Quality Assessment	**Received by:**	Atieno		

PARAMETERS	UNIT	ANALYTICAL METHOD	RESULTS	KS EAS 12:2018 STANDARDS (MAX.)
Temperature	°C			-
pH	pH Scale	APHA 4500-H^+ B	**6.51**	6.5-8.5
Colour	mgPt L^{-1}	APHA 2120 B	**5**	15
Turbidity	N.T.U	APHA 2130 B	**2.17**	5
Conductivity (25° C)	µS cm^{-1}	APHA 2510 B	**215**	2500
Chloride	mg L^{-1}	Photometric	**10**	250
Iron	mg L^{-1}	APHA 3500-Fe B	**0.02**	0.3
Manganese	mg L^{-1}	APHA 3500-Mn B	**0.001**	0.1
Total Hardness	mg$CaCO_3L^{-1}$	APHA 2340 C	**64**	300
Total Alkalinity	mg$CaCO_3L^{-1}$	APHA 2320 B	**132**	500
Fluoride	mg L^{-1}	APHA 4500-F^- C	**0.01**	1.5
Nitrate	mgNO_3^- L^{-1}	APHA 4500-NO_3^-D	**1.54**	45
Sulphate	mg L^{-1}	APHA 4500-SO_4^{2-} E	**3.1**	400
Total Dissolved Solids	mg L^{-1}	APHA 2510 A	**107**	1500

**Maximum limits for treated potable water; **WHO maximum guideline value; APHA: American Public Health Association (2005) - Standard methods for the examination of water & wastewater*

Comments: The water sample performed as shown above. Based on the analyzed parameters water is within the KEBS standards for drinking water.

.....
O. Akello
Laboratory Analyst

.....
C. Onyango
Water Quality and Pollution Control Officer

Issued by .....
BASIN AREA COORDINATOR

WATER RESOURCES AUTHORITY
LAKE VICTORIA SOUTH BASIN AREA
P.O. Box 666 - 40100, KISUMU
TEL: 057 2025493

The results contained herein apply to the particular sample(s) tested, whose sample number and tests carried out are as detailed in these results. The information contained here reflects the laboratory's findings as at the time of analysis and based on the samples submitted by the client.

Water quality analysis laboratory results from Kitale Primary School

FORM F/9/1/3

WATER RESOURCES AUTHORITY

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Physical-Chemical & Bacteriological Laboratory Results Certificate

Report Issue Date:	21/5/2025	**Sample No:**	471	**Year:**	2025
Name of Customer:	WELLBORING	**Date Received:**	20/5/2025		
Address:		**Date of Sampling:**	19/5/2025		
Telephone Number:		**Type of Sample:**	Potable water		
Sample submitted by:	Wellboring	**Source of sample:**	Kitale School primary, Trans Nzoia County		
Purpose of sampling:	Water Quality Assessment	**Received by:**	Atieno		

PARAMETERS	UNIT	ANALYTICAL METHOD	RESULTS	KS EAS 12:2018 STANDARDS (MAX.)
Temperature	°C			-
pH	pH Scale	APHA 4500-H^+ B	**6.6**	6.5-8.5
Colour	mgPt L^{-1}	APHA 2120 B	**10**	15
Turbidity	N.T.U	APHA 2130 B	**4.3**	5
Conductivity (25° C)	µS cm^{-1}	APHA 2510 B	**148**	2500
Chloride	mg L^{-1}	Photometric	**5**	250
Iron	mg L^{-1}	APHA 3500-Fe B	**0.01**	0.3
Manganese	mg L^{-1}	APHA 3500-Mn B	**0.001**	0.1
Total Hardness	mg$CaCO_3L^{-1}$	APHA 2340 C	**34**	300
Total Alkalinity	mg$CaCO_3L^{-1}$	APHA 2320 B	**82**	500
Fluoride	mg L^{-1}	APHA 4500-F^- C	**0.1**	1.5
Nitrate	mgNO_3^- L^{-1}	APHA 4500-NO_3^-D	**0.6**	45
Sulphate	mg L^{-1}	APHA 4500-SO_4^{2-} E	**2.3**	400
Total Dissolved Solids	mg L^{-1}	APHA 2510 A	**74**	1500

**Maximum limits for treated potable water; **WHO maximum guideline value; APHA: American Public Health Association (2005) - Standard methods for the examination of water & wastewater*

Comments: The water sample performed as shown above. Based on the analyzed parameters water is within the KEBS standards for drinking water.

.....
O. Akello
Laboratory Analyst

.....
C. Onyango
Water Quality and Pollution Control Officer

Issued by .....
BASIN AREA COORDINATOR

WATER RESOURCES AUTHORITY
LAKE VICTORIA SOUTH BASIN AREA
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TEL: 057 2025493

The results contained herein apply to the particular sample(s) tested, whose sample number and tests carried out are as detailed in these results. The information contained here reflects the laboratory's findings as at the time of analysis and based on the samples submitted by the client.

Water quality analysis laboratory results from Korosiot Primary School

FORM F/9/1/3

WATER RESOURCES AUTHORITY

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Physical-Chemical & Bacteriological Laboratory Results Certificate

Report Issue Date:	21/5/2025	**Sample No:**	474	**Year:**	2025
Name of Customer:	WELLBORING	**Date Received:**	20/5/2025		
Address:		**Date of Sampling:**	19/5/2025		
Telephone Number:		**Type of Sample:**	Potable water		
Sample submitted by:	Wellboring	**Source of sample:**	Korosoit Primary School, Trans Nzoia County		
Purpose of sampling:	Water Quality Assessment	**Received by:**	Atieno		

PARAMETERS	UNIT	ANALYTICAL METHOD	RESULTS	KS EAS 12:2018 STANDARDS (MAX.)
Temperature	°C			-
pH	pH Scale	APHA 4500-H^+ B	**6.76**	6.5-8.5
Colour	mgPt L^{-1}	APHA 2120 B	**7.5**	15
Turbidity	N.T.U	APHA 2130 B	**3.35**	5
Conductivity (25° C)	µS cm^{-1}	APHA 2510 B	**260**	2500
Chloride	mg L^{-1}	Photometric	**13**	250
Iron	mg L^{-1}	APHA 3500-Fe B	**0.03**	0.3
Manganese	mg L^{-1}	APHA 3500-Mn B	**0.001**	0.1
Total Hardness	mg$CaCO_3L^{-1}$	APHA 2340 C	**34**	300
Total Alkalinity	mg$CaCO_3L^{-1}$	APHA 2320 B	**76**	500
Fluoride	mg L^{-1}	APHA 4500-F^- C	**0.01**	1.5
Nitrate	mgNO_3^- L^{-1}	APHA 4500-NO_3^-D	**1.92**	45
Sulphate	mg L^{-1}	APHA 4500-SO_4^{2-} E	**4.3**	400
Total Dissolved Solids	mg L^{-1}	APHA 2510 A	**129**	1500

**Maximum limits for treated potable water; **WHO maximum guideline value; APHA: American Public Health Association (2005) - Standard methods for the examination of water & wastewater*

Comments: The water sample performed as shown above. Based on the analyzed parameters water is within the KEBS standards for drinking water.

.....
O. Akello
Laboratory Analyst

.....
C. Onyango
Water Quality and Pollution Control Officer

Issued by .....
BASIN AREA COORDINATOR

WATER RESOURCES AUTHORITY
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TEL: 057 2025493

The results contained herein apply to the particular sample(s) tested, whose sample number and tests carried out are as detailed in these results. The information contained here reflects the laboratory's findings as at the time of analysis and based on the samples submitted by the client.

Water quality analysis laboratory results from Mukuyuni Primary School

WATER RESOURCES AUTHORITY

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Physical-Chemical & Bacteriological Laboratory Results Certificate

Report Issue Date:	21/5/2025	**Sample No:**	473	**Year:**	2025
Name of Customer:	WELLBORING	**Date Received:**	20/5/2025		
Address:		**Date of Sampling:**	19/5/2025		
Telephone Number:		**Type of Sample:**	Potable water		
Sample submitted by:	Wellboring	**Source of sample:**	Mukuyuni Primary School, Trans Nzoia County		
Purpose of sampling:	Water Quality Assessment	**Received by:**	Atieno		

PARAMETERS	UNIT	ANALYTICAL METHOD	RESULTS	KS EAS 12:2018 STANDARDS (MAX.)
Temperature	^{o}C			-
pH	pH Scale	APHA 4500-H^+ B	**6.83**	6.5-8.5
Colour	mgPt L^{-1}	APHA 2120 B	**10**	15
Turbidity	N.T.U	APHA 2130 B	**4.03**	5
Conductivity (25°C)	µS cm^{-1}	APHA 2510 B	**546**	2500
Chloride	mg L^{-1}	Photometric	**9**	250
Iron	mg L^{-1}	APHA 3500-Fe B	**0.12**	0.3
Manganese	mg L^{-1}	APHA 3500-Mn B	**0.001**	0.1
Total Hardness	mg$CaCO_3L^{-1}$	APHA 2340 C	**46**	300
Total Alkalinity	mg$CaCO_3L^{-1}$	APHA 2320 B	**94**	500
Fluoride	mg L^{-1}	APHA 4500-F^- C	**0.05**	1.5
Nitrate	mgNO_3^- L^{-1}	APHA 4500-NO_3^-D	**1.21**	45
Sulphate	mg L^{-1}	APHA 4500-SO_4^{2-} E	**2.7**	400
Total Dissolved Solids	mg L^{-1}	APHA 2510 A	**276**	1500

**Maximum limits for treated potable water; **WHO maximum guideline value; APHA: American Public Health Association (2005) - Standard methods for the examination of water & wastewater*

Comments: The water sample performed as shown above. Based on the analyzed parameters water is within the KEBS standards for drinking water.

.....
O. Akello
Laboratory Analyst

.....
C. Onyango
Water Quality and Pollution Control Officer

Issued by .....
BASIN AREA COORDINATOR

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The results contained herein apply to the particular sample(s) tested, whose sample number and tests carried out are as detailed in these results. The information contained here reflects the laboratory's findings as at the time of analysis and based on the samples submitted by the client.

Water quality analysis laboratory results from Napiz Primary School

FORM F/9/1/3

WATER RESOURCES AUTHORITY

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Physical-Chemical & Bacteriological Laboratory Results Certificate

Report Issue Date:	21/5/2025	**Sample No:**	479	**Year:**	2025
Name of Customer:	WELLBORING	**Date Received:**	20/5/2025		
Address:		**Date of Sampling:**	19/5/2025		
Telephone Number:		**Type of Sample:**	Potable water		
Sample submitted by:	Wellboring	**Source of sample:**	Napiz Primary School, West Pokot County		
Purpose of sampling:	Water Quality Assessment	**Received by:**	Atieno		

PARAMETERS	UNIT	ANALYTICAL METHOD	RESULTS	KS EAS 12:2018 STANDARDS (MAX.)
Temperature	°C			-
pH	pH Scale	APHA 4500-H^+ B	**6.58**	6.5-8.5
Colour	mgPt L^{-1}	APHA 2120 B	**5**	15
Turbidity	N.T.U	APHA 2130 B	**2.75**	5
Conductivity (25° C)	µS cm^{-1}	APHA 2510 B	**909**	2500
Chloride	mg L^{-1}	Photometric	**6**	250
Iron	mg L^{-1}	APHA 3500-Fe B	**0.1**	0.3
Manganese	mg L^{-1}	APHA 3500-Mn B	**0.01**	0.1
Total Hardness	mg$CaCO_3L^{-1}$	APHA 2340 C	**48**	300
Total Alkalinity	mg$CaCO_3L^{-1}$	APHA 2320 B	**98**	500
Fluoride	mg L^{-1}	APHA 4500-F^- C	**0.3**	1.5
Nitrate	mgNO_3^- L^{-1}	APHA 4500-NO_3^-D	**1.48**	45
Sulphate	mg L^{-1}	APHA 4500-SO_4^{2-} E	**3.6**	400
Total Dissolved Solids	mg L^{-1}	APHA 2510 A	**455**	1500

**Maximum limits for treated potable water; **WHO maximum guideline value; APHA: American Public Health Association (2005) - Standard methods for the examination of water & wastewater*

Comments: The water sample performed as shown above. Based on the analyzed parameters water is within the KEBS standards for drinking water.

.....
O. Akello
Laboratory Analyst

.....
C. Onyango
Water Quality and Pollution Control Officer

Issued by .....
BASIN AREA COORDINATOR

WATER RESOURCES AUTHORITY
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The results contained herein apply to the particular sample(s) tested, whose sample number and tests carried out are as detailed in these results. The information contained here reflects the laboratory's findings as at the time of analysis and based on the samples submitted by the client.

Water quality analysis laboratory results from Sigor Primary School

FORM F/9/1/3

WATER RESOURCES AUTHORITY

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Physical-Chemical & Bacteriological Laboratory Results Certificate

Report Issue Date:	21/5/2025	**Sample No:**	472	**Year:**	2025
Name of Customer:	WELLBORING	**Date Received:**	20/5/2025		
Address:		**Date of Sampling:**	19/5/2025		
Telephone Number:		**Type of Sample:**	Potable water		
Sample submitted by:	Wellboring	**Source of sample:**	Sigor Primary School, West Pokot County		
Purpose of sampling:	Water Quality Assessment	**Received by:**	Atieno		

PARAMETERS	UNIT	ANALYTICAL METHOD	RESULTS	KS EAS 12:2018 STANDARDS (MAX.)
Temperature	°C			-
pH	pH Scale	APHA 4500-H^+ B	**7.04**	6.5-8.5
Colour	mgPt L^{-1}	APHA 2120 B	**5**	15
Turbidity	N.T.U	APHA 2130 B	**2.74**	5
Conductivity (25° C)	µS cm^{-1}	APHA 2510 B	**675**	2500
Chloride	mg L^{-1}	Photometric	**11**	250
Iron	mg L^{-1}	APHA 3500-Fe B	**0.01**	0.3
Manganese	mg L^{-1}	APHA 3500-Mn B	**0.02**	0.1
Total Hardness	mg$CaCO_3L^{-1}$	APHA 2340 C	**55**	300
Total Alkalinity	mg$CaCO_3L^{-1}$	APHA 2320 B	**116**	500
Fluoride	mg L^{-1}	APHA 4500-F^- C	**0.8**	1.5
Nitrate	mgNO_3^- L^{-1}	APHA 4500-NO_3^-D	**1.6**	45
Sulphate	mg L^{-1}	APHA 4500-SO_4^{2-} E	**3.2**	400
Total Dissolved Solids	mg L^{-1}	APHA 2510 A	**337**	1500

**Maximum limits for treated potable water; **WHO maximum guideline value; APHA: American Public Health Association (2005) - Standard methods for the examination of water & wastewater*

Comments: The water sample performed as shown above. Based on the analyzed parameters water is within the KEBS standards for drinking water.

.....
O. Akello
Laboratory Analyst

.....
C. Onyango
Water Quality and Pollution Control Officer

Issued by .....
BASIN AREA COORDINATOR

WATER RESOURCES AUTHORITY
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The results contained herein apply to the particular sample(s) tested, whose sample number and tests carried out are as detailed in these results. The information contained here reflects the laboratory's findings as at the time of analysis and based on the samples submitted by the client.

Water quality analysis laboratory results from Woyakol Primary School

FORM F/9/1/3

WATER RESOURCES AUTHORITY

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Physical-Chemical & Bacteriological Laboratory Results Certificate

Report Issue Date:	21/5/2025	**Sample No:**	478	**Year:**	2025
Name of Customer:	WELLBORING	**Date Received:**	20/5/2025		
Address:		**Date of Sampling:**	19/5/2025		
Telephone Number:		**Type of Sample:**	Potable water		
Sample submitted by:	Wellboring	**Source of sample:**	Woyakol Primary School, West Pokot County		
Purpose of sampling:	Water Quality Assessment	**Received by:**	Atieno		

PARAMETERS	UNIT	ANALYTICAL METHOD	RESULTS	KS EAS 12:2018 STANDARDS (MAX.)
Temperature	°C			-
pH	pH Scale	APHA 4500-H^+ B	**6.5**	6.5-8.5
Colour	mgPt L^{-1}	APHA 2120 B	**10**	15
Turbidity	N.T.U	APHA 2130 B	**4.45**	5
Conductivity (25° C)	µS cm^{-1}	APHA 2510 B	**264**	2500
Chloride	mg L^{-1}	Photometric	**9**	250
Iron	mg L^{-1}	APHA 3500-Fe B	**0.06**	0.3
Manganese	mg L^{-1}	APHA 3500-Mn B	**0.01**	0.1
Total Hardness	mg$CaCO_3L^{-1}$	APHA 2340 C	**40**	300
Total Alkalinity	mg$CaCO_3L^{-1}$	APHA 2320 B	**92**	500
Fluoride	mg L^{-1}	APHA 4500-F^- C	**0.4**	1.5
Nitrate	mgNO_3^- L^{-1}	APHA 4500-NO_3^-D	**1.94**	45
Sulphate	mg L^{-1}	APHA 4500-SO_4^{2-} E	**4.4**	400
Total Dissolved Solids	mg L^{-1}	APHA 2510 A	**130**	1500

**Maximum limits for treated potable water; **WHO maximum guideline value; APHA: American Public Health Association (2005) - Standard methods for the examination of water & wastewater*

Comments: The water sample performed as shown above. Based on the analyzed parameters water is within the KEBS standards for drinking water.

.....
O. Akello
Laboratory Analyst

.....
C. Onyango
Water Quality and Pollution Control Officer

Issued by .....
BASIN AREA COORDINATOR

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The results contained herein apply to the particular sample(s) tested, whose sample number and tests carried out are as detailed in these results. The information contained here reflects the laboratory's findings as at the time of analysis and based on the samples submitted by the client.