

Water Resources Authority

Grid Reference for Works (UTM Arc 1960)

Easting: **799857**
Northing: **9811318 UTM**
Altitude m(amsl): **2053m**
Zone: **36M**
Map sheet:

BOREHOLE COMPLETION RECORD

(To be submitted in triplicate)

(Rule 55.)

Borehole No:

Borehole Name: **OLENKUYA PRIMARY SCHOOL**

Formation: **BASEMENT**

PARTICULARS OF APPLICANT		DETAILS	
1. Full name of applicant(s) (In Block Letters)		OLENKUYA PRIMARY SCHOOL	
2. Category of Applicant - Individual, Group [Association, Society], Company, Institution		INSTITUTION	
3. ID Number of Applicant (Individual) or Certificate of Incorporation or Registration for Groups or Companies			
4. PIN Number (where available)			
Physical Address where water is to be used (see sketch)		Contact Address of Applicant.	
5. L.R Number(s)		12. Box Number	
6. Village(s)	EMRAASH	13. Town	NAROK
7. Sub Location	LESUTA	14. Post Code	20500
8. Location(s)	NAKARA	15. Telephone Contact (Landline)	
9. Division/Ward(s)	MARA	16. Telephone Contact (Mobile)	
10. Sub County	NAROK WEST	17. Email Contact	
11. County	NAROK		
PARTICULARS OF CONTRACTOR: NAME		BETTERLINE WATER LTD	
18. Box Number	27277	24. License Number	WD/WC/4010
19. Town	NAIROBI	25. Gazetted On	02/02/2021
20. Post Code	00100	26. Drilling Supervisor	WILSON JUMA
21. Telephone Contact (Landline)	0722619402	27. Type and Make of Drill Rig	PRD MAX DRILL
22. Telephone Contact (Mobile)	0722619402		
23. Email Contact	info@betterlinewater.com		
INTENDED USE OF WATER			
Public W.S.; Irrigation.; Industries.; Domestic.; Stock, other		Domestic	
PARTICULARS OF BOREHOLE			
Type of Borehole: - Drilled; Driven; Bored; Jetted; Other			
Borehole Construction (also see sketch page 3)			
Drilling started (date)	24/01/2024	Drilling completed (date)	26/01/2024
		All work completed (date)	07/02/2024

The Chief Executive Officer,
Water Resources Authority,
P.O. Box 45250 – 00100
NAIROBI



Form: **WRA**
Basin Area: **ATH**
WRA ID:
File No:

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Total Depth: Reported (m)	230	Measured (m)	230	Final (back-filled) Depth (m)	Nil
Hole Diameter (mm)	216	From (m)	0	To (m)	230
Hole Diameter (mm)		From (m)		To (m)	
Hole Diameter (mm)		From (m)		To (m)	
Hole Diameter (mm)		From (m)		To (m)	



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Permanent Casing									
Plain									
Type		Diam (mm)	216	Length (m)	1	From (m)	0	To (m)	1
Type		Diam (mm)	152	Length (m)	158	From (m)	0 74 92 116 136 170 188 212 224	To (m)	68 86 104 122 158 182 200 218 230
Type		Diam (mm)		Length (m)		From (m)		To (m)	
Slotted or Perforated:									
Size and Description of Openings									
Type		Diam (mm)	152	Length (m)	72	From (m)	68 86 104 122 158 182 200 218	To (m)	74 92 116 136 170 188 212 224
Type		Diam (mm)		Length (m)		From (m)		To (m)	
Screen:									
Type and Make									
Diameter (mm)		Length (m)		set from (m)		To (m)			
Gravel Pack									
Size of grains (mm)	2-4	Roundness (good, fair, poor)	Good		Volume inserted in annular Space (m ³)	5 Tons			
		From (m)			To (m)				
Open Hole									
Diam. (mm)		From (m)			To (m)				
Aquifer									
1 st Water Struck at (m)	65-70	Water Rest Level (m)							



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2 nd Water Struck at (m)	105-115	Water Rest Level (m)	
Main Aquifer Struck at (m)	205 –211	Water Rest Level (m)	
Water bearing material		From (m)	To (m)
Other Aquifers, Remarks, etc (also see log on page3)			
Yield: SWL (m)	45.61	PWL (m below surface)	181.84
		Discharge (litres per minute)	37.666667L
After pumping (hours)	24HRS	Recovered to SWL in (minutes)	60min
Expected production discharge (litres per hour)	1582L	With pump set at (m below surface)	216



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<i>Pumping Test Record</i> in Summary (Detailed test records on attached sheets): (all depth measurements to be in metres below ground surface)		
	Test No. 1	Test No. 2
Date of Test (day, month, year)	12th to 13th Feb 2024	
Depth of Borehole at time of test (m)	230m	
Water Entry (perforations or screen setting at time of test)	Refer to the Drillers report	
	To (m)	To (m)
Static Water (SWL) before test (m)	45.61m	
Type of Pump (Bailer) used	SP 5 - 44	
Depth of Pump intake (m)	216m	
Discharge (in litres per minute)	37.6666667L	
Pumping Water Level (PWL m)	181.84	
After pumping continuously for (hours)	23Hrs	
Time of Recovery to Original SWL (minutes)	120	
Rate of Recovery-WL after 5 minutes (m)	177.30m	
Rate of Recovery-WL after 20 minutes (m)	152.44m	
Rate of Recovery-WL after 60 minutes (m)	89.85m	
Rate of Recovery-WL after 180 minutes (m)		

(Additional pumping tests to be mentioned in REMARKS and included with file).

Government representative witnessing the test.....

Quality of Water					
Sample (Yes/No)	Yes	Collected at (hour)	1146	On (date)	12/02/2024
Sediment		Taste		Odour	
Colour		Temperature (0c)		Spec. Conductivity ($\mu\text{mho}/\text{cm}^3$)	

<i>Remarks:</i> (drilling difficulties, gravel-pack details, all pertinent information about the drilling and completion of the hole)	DRILLING WENT ON WELL WITHOUT ANY CHALLENGES
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NAIROBI



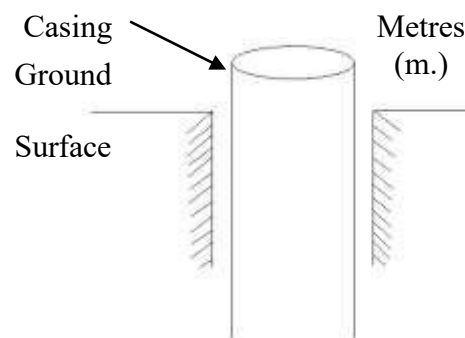
Form:
Basin Area: **AIH**
WRA ID:
File No:

WRA

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<i>Drilling Supervisor</i>		<i>Drilling Contractor</i>	
Signature		Signature	
Name	WILSON JUMA	Name	BETTERLINE WATER LTD
Date	10/02/2024	Date	10/02/2024

Borehole No:

[illegible]

Remarks or additional information on Driller's log, or on sketch of Borehole:

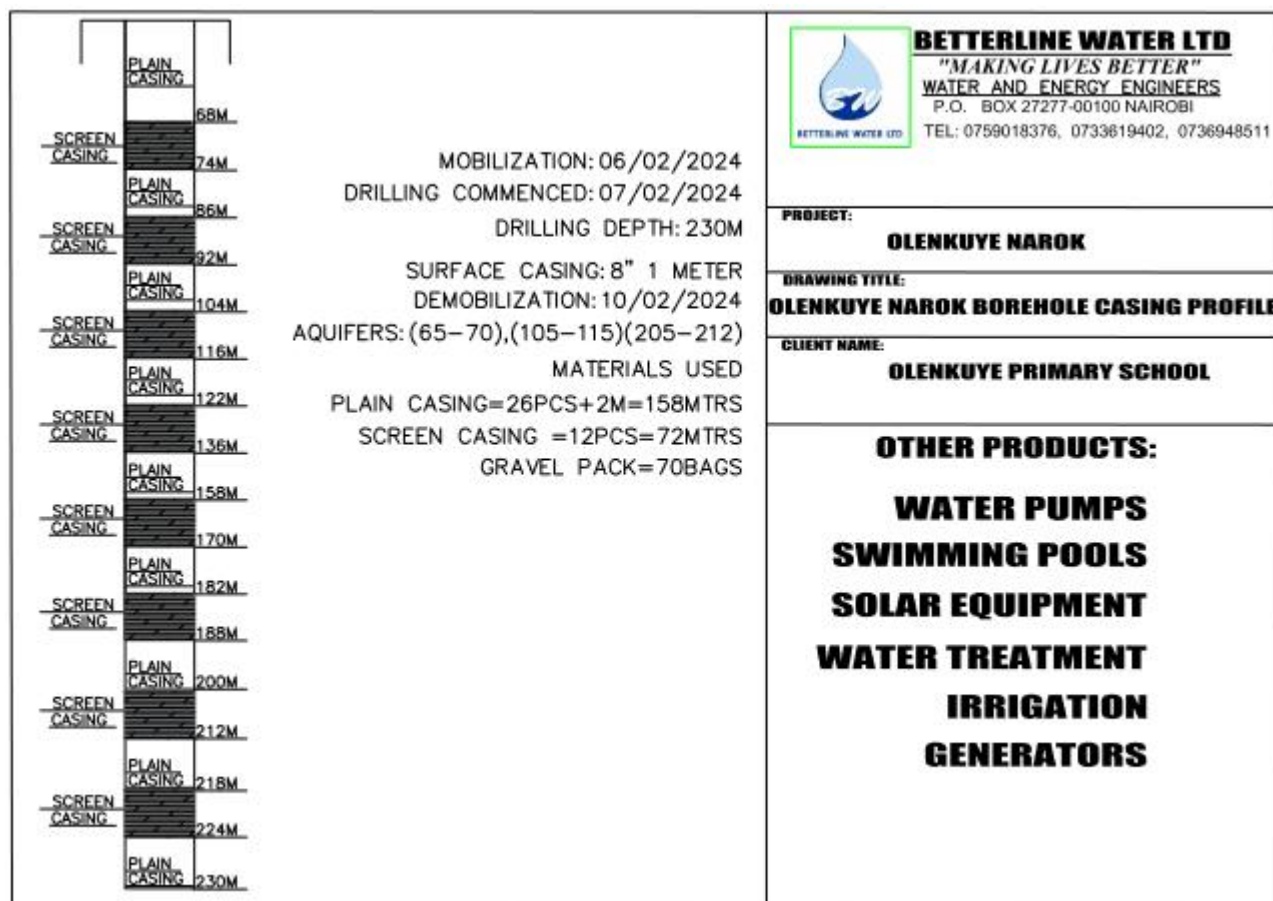
[illegible]

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12. Sketch of Borehole Construction:

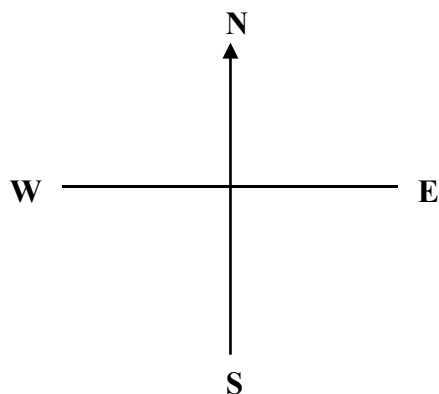
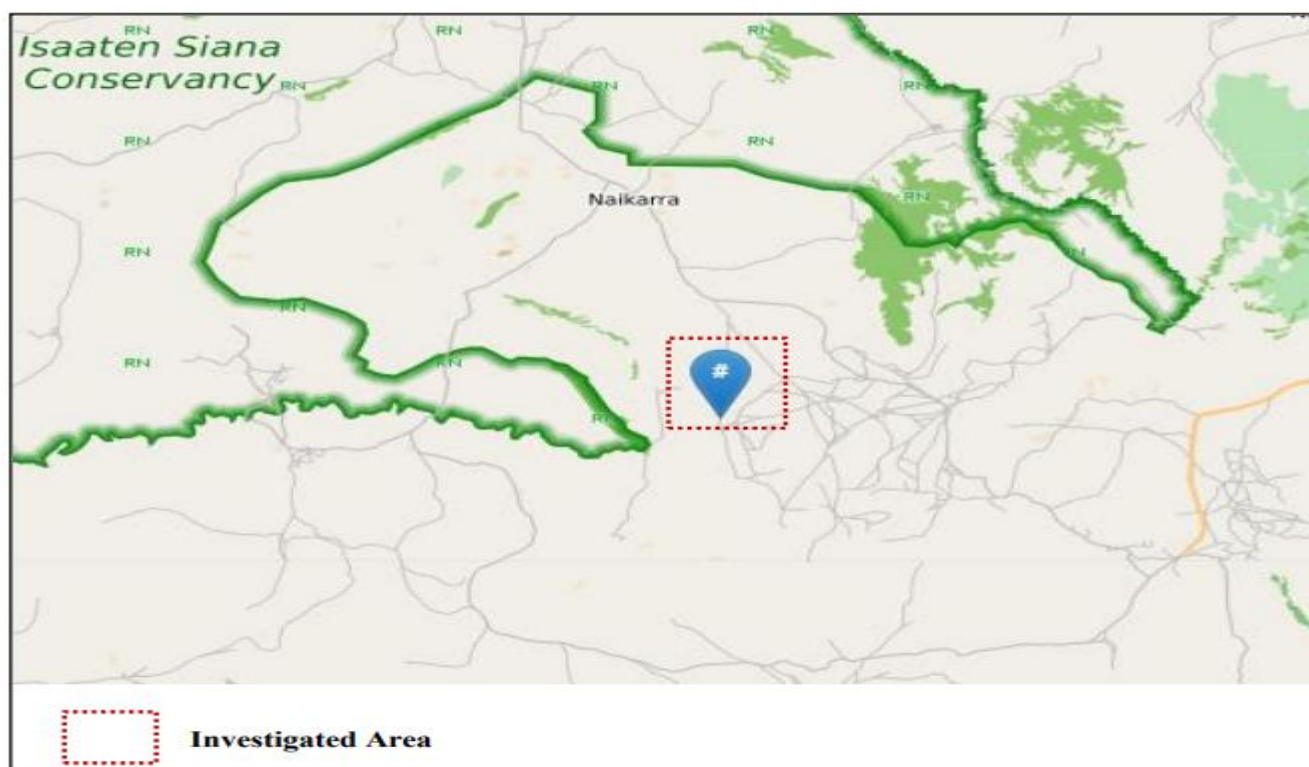
Total depth

(Sketch to include: - depth and changes of hole diameter; casing positions, manner of casing (of different diam.) connections, and casing connection to screen; depths of screens or slotted casing lengths; how casing is closed at bottom; formation caving zones; and any other pertinent information).



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13. *Location Sketch:* (To be sketched by the driller on the site, showing roads, tracks and prominent land marks, with road distances to nearest town or trading centre and to water source).



**COORDINATES: 9811318 UTM
799857**



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For Official Use Only

Entered on Schedule.....(Yes/No) Water Sample Received.....(Yes/No)
Drilling Samples Received.....(Yes/No) Chemical Analysis Received.....(Yes/No)
Drilling Samples Filed.....(Yes/No) Geologist's Log Available.....(Yes/No)
Location Plotted on Maps.....(Yes/No)

Hydro geological Report No.....of.....
(Date)

Geophysical Curve No.....of.....
(Date)

Borehole Data entered and checked by (Name).....Signature.....

Permit details

Permit Number Authorised abstraction.....m³/d

Authorised water use(s)

Pump intake depth m bgl Maximum authorised abstraction rate.....m³/hr

All Borehole Completion Records duly completed should be sent to the appropriate WRA Sub-basin Office.