

SP

GPS Coordinates N09° 23.484 W011° 45.970		BH status		Successful	
GPS ref. No.		dry		☒	
BOREHOLE RECORD					
Drilling contractor		WINGIN		BH. REF. NO.	
Community		Fadugu		Drilling Rig	
Drilling start date		5/05/2016		Completion date 5/05/2016	
Nat. Grid ref.		KLR1100-300		Method	
Operator		Air Rotray		Operator	
Operator		DAS VERA		WELL DIAGRAM with	
WELL DIAGRAM with		STATIC AND DYNAMIC WATER LEVEL		Style	
BH Size & Style		Scale		PROFILE	
Temp. caisson				Time/Depth M/Min	
Water zone Cumulative Q(L/Min.)					
Step bit 212mm		5		Clay reddish /brown	
		10		1.0	
		15		Clay wet brown	
		20		1	
		25			
		30		Fracture rock	
		35		0.5	
		40			
		45			
		50			
		55			
		60			
		65			
		70			
		75			
		80			
		85			
		90			
		95			
203mm DTH Button bit					

Gravel for gravel pack:		M
Cement for grouting:		M
Cleaning and development		HRS
Centralizers fitted	yes	No
Safety cap fitted	yes	No
Backfill aban.BH	yes	No

Remarks and stoppage: Bore hole drilled to 36.8m (Yield Nil)

Prepared By: Rexson L. Keingo

Drilling Supervisor

Approval :

Contractor

Approval:

SP

Project ref. No.		GPS Coordinates N 09° 32.144 W 011° 22.136		BH status		Successful ☒	
BOREHOLE RECORD							
Drilling contractor		WINGIN		BH. REF. NO.		Nat. Grid ref.	
Community		Koinadugu 2		Drilling Rig		Method	
Drilling start date		8/04/2016		Completion date		8/04/2016	
				Operator		DAS VERA	

H Size & ityle	Temp. caisson	Scale	PROFILE	Time/ Depth M/Min	Water zone Cumulative Q(L/Min.)	WELL DIAGRAM with STATIC AND DYNAMIC WATER LEVEL		Style			
 Step bit 212mm		5	Laterite moist reddish	1.3							
		10									
		15	Clay dark brown	1.6							
		20									
		25									
 203mm DTH Button bit		30	Fracture rock	1							
		35									
		40	Hard rock	0.2							
		45									
		50									
		55									
		60									
		65									
		70									
		75									
	80										
	85										
	90										
	95										

Gravel for gravel pack:		36.8	M	Remarks and stoppage: Bore hole drilled to 51.9m (Yield 2.4m ³ /h) Prepared By: Rexson L. Keingo Drilling Supervisor Approval : _____ Contractor
Cement for grouting:		4.8	M	
Cleaning and development		1hr13min	HRS	
Centralizers fitted	yes	No	☒	
Safety cap fitted	yes	No	☒	
Backfill aban.BH		yes	No	

Remarks and stoppage: Bore hole drilled to 64.40m (Yield 2m ³ /h)	
Prepared By: Rexson L. Keingo	Drilling Supervisor
Approval :	Contractor
Approval:	

SP

GPS Coordinates N 09° 51.902 W 011° 25.728

BH status

Successful

☒

Ref. No.

BOREHOLE RECORD

Drilling contractor
Community
Drilling start dateWINGIN
Sinkunia
12/04/2016

BH. REF. NO.

Drilling Rig

Completion date 12/04/2016

KLR1100-300

Nat. Grid ref.

Method

Operator

Air Rotray

DAS VERA

H
Size &
StyleTemp.
caisson

Scale

PROFILE

Time/
Depth
M/MinWater zone
Cumulative
Q(L/Min.)WELL DIAGRAM with
STATIC AND DYNAMIC WATER LEVEL

Style

Step bit
212mm203mm
DTH
Button bit

Laterite clay /reddish

Fracture rock

Hard rock dark gray

Fracture rock

Bore hole
cementationBackfill with
cutting from
bore hole

Clay seal

PVC Well
screen

Gravel pack

PVC Well
screen

Plain PVC

Gravel for gravel pack:

44.4

M

Cement for grouting:

5

M

Cleaning and development

1hr:30min

Centralizers fitted

yes

No

Safety cap fitted

yes

No

Backfill aban.BH

yes

No

Remarks and stoppage: Bore hole drilled to 64.4m (Yield 6m³/h)

Prepared By: Rexson L. Keingo

Drilling Supervisor

Approval :

Contractor

BOREHOLE RECORD

Drilling contractor		WINGIN		BH. REF. NO.		Nat. Grid ref.	
Community		Falaba		Drilling Rig		Method	
Start date		14/04/2016		Completion date 14/04/2016		Operator	
				KLR1100-300		Air Rotray	
						DAS VERA	
Size & Style	Temp. caisson	Scale	PROFILE	Time/Depth M/Min	Water zone Cumulative Q(L/Min.)	WELL DIAGRAM with STATIC AND DYNAMIC WATER LEVEL Style	
Step bit 212mm		5	Laterite reddish brown	4.6			
		10	Clay brown	3.1			
		15	Clay sand brown	4.7			
203mm DTH Button bit		20	Clay light gray yellow	1.6			
		25					
		30					
		35					
		40	Weather rock pink granite	1			
		45					
		50	Fracture rock	1			
		55					
	60						
	65						
	70						
	75						
	80						
	85						
	90						
	95						

Gravel for gravel pack: 41.4 M

Cement for grouting: 2.50 M

Cleaning and development: 40 min HRS

Centralizers fitted: yes No ✓

Safety cap fitted: yes ✓ No

Backfill aban.BH: yes ✓ No

Remarks and stoppage: Bore hole drilled to 64.4m (Yield 1.5m³/h)

Prepared By: Rexson L. Keingo Drilling Supervisor

Approval : Contractor

Approval:

SP

Ref. No.		GPS Coordinates		NIL		BH status		Successful	
BOREHOLE RECORD									
Drilling contractor		WINGIN		BH. REF. NO.		Nat. Grid ref.			
Community		Mongo Bendugu		Drilling Rig		KLR1100-300		Method	
Drilling start date		16/04/2016		Completion date		16/04/2016		Operator	
								Air Rotray	
								DAS VERA	

H Size & Style	Temp. caisson	Scale	PROFILE	Time/ Depth M/Min	Water zone Cumulative Q(L/Min.)	WELL DIAGRAM with STATIC AND DYNAMIC WATER LEVEL				Style	
 Step bit 212mm		5	Clay reddish /brown	2.1						5	
		10								10	
		15								15	
		20			Clay yellow	1.5					20
		25					Clay brown	1			
 203mm DTH Button bit		30	Clay sand mod	1							
		35								35	
		40								40	
		45								45	
		50								50	
		55								55	
		60								60	
		65								65	
		70								70	
		75								75	
		80								80	
		85								85	
		90								90	
		95								95	

Gravel for gravel pack:				M		Remarks and stoppage: Bore hole drilled to 52.2m (Yield dry bore hole) Prepared By: Rexson L. Keingo Drilling Supervisor Approval : Contractor Approval:	
Cement for grouting:				M			
Cleaning and development				HRS			
Centralizers fitted	yes	No					
Safety cap fitted	yes	✓	No				
Backfill aban.BH	yes	✓	No				

3P

Physics ref. No.		GPS Coordinates N 09° 07.289 W 011° 16.381		BH status		Successful	
BOREHOLE RECORD							
Drilling contractor		WINGIN		BH. REF. NO.		KLR1100-300	
Community		Yinffin		Drilling Rig		Method	
Drilling start date		10/05/2016		Completion date		10/05/2016	
Operator		DAS VERA		Nat. Grid ref.		Air Rotray	
Drilling start date		10/05/2016		Time/Depth M/Min		Water zone Cumulative Q(L/Min.)	
WELL DIAGRAM with STATIC AND DYNAMIC WATER LEVEL		Style					
BH Size & Style	Temp. caisson	Scale	PROFILE		Time/Depth M/Min	Water zone Cumulative Q(L/Min.)	WELL DIAGRAM with STATIC AND DYNAMIC WATER LEVEL
Step bit 212mm		5	Top clay reddish		4.6		
		10	Cay wet brown		4.6		
		15	Sandy clay/light gray		4.6		
203mm DTH Button bit		20	Fracture rock dark brown		0.4		
		25					
		30					
		35					
		40					
		45					
		50					
		55					
		60					
		65					
		70					
		75					
		80					
		85					
		90					
95							

Gravel for gravel pack:		M
Cement for grouting:		M
Cleaning and development		HRS
Centralizers fitted	yes	No
Safety cap fitted	yes	No
Backfill aban.BH	yes	No

Remarks and stoppage: Bore hole drilled to 96.6m (dry bore hole)

Prepared By: **Rexson L. Keingo** Drilling Supervisor

Approval: Contractor

Approval:

ESP

ref. No.

GPS Coordinates N 09° 23.482 W 011° 48.977

BH status

Successful

dry



BOREHOLE RECORD

Drilling contractor	WINGIN	BH. REF. NO.	KLR1100-300	Nat. Grid ref.	
Community	Kondembaya	Drilling Rig		Method	Air Rotray
Drilling start date	6/04/2016	Completion date	7/04/2016	Operator	DAS VERA

H size & Style	Temp. caisson	Scale	PROFILE	Time/Depth M/Min	Water zone Cumulative Q(L/Min.)	WELL DIAGRAM with STATIC AND DYNAMIC WATER LEVEL	Style
Step bit 212mm		5	Clay- brown	2.3			5
		10	Sand clay light yellow	2.3			10
203mm DTH Button bit		15					15
		20	Fractured rock dark brown	0.6			20
		25					25
		30	Granite slightly Fractured- brown	0.3			30
		35					35
40				40			
45				45			
50				50			
55				55			
60				60			
65				65			
70				70			
75				75			
80				80			
85				85			
90				90			
95				95			

Gravel for gravel pack:	23.8	M	Remarks and stoppage: Bore hole drilled to 64.4m (Yield 2.8m ³ /h)
Cement for grouting:	4	M	
Cleaning and development	1hr	HRS	
Centralizers fitted	yes	No	
Safety cap fitted	yes	No	
Backfill aban.BH	yes	No	Approval:

Prepared By: Rexson L. Keingo	Drilling Supervisor
Approval:	Contractor
Approval:	

dry

Approval:

Ref. No.		GPS Coordinates N 09° 30.199 W 011° 35.683		BH status		Successful ☒		
BOREHOLE RECORD								
Contractor		BH. REF. NO.		Nat. Grid ref.		Method		
WINGIN		KLR1100-300		Air Rotray		Operator		
Community		Drilling Rig		Operator		DAS VERA		
Start date		Completion date						
3/04/2016		4/04/2016						
Size & Style	Temp. caisson	Scale	PROFILE	Time/Depth M/Min	Water zone Cumulative Q(L/Min.)	WELL DIAGRAM with STATIC AND DYNAMIC WATER LEVEL		
						Style		
ep bit 12mm		5	Laterite reddish/brown	1 min				
		10	Saturated clay/brown	11 min				
15								
20								
25								
203mm DTH Button bit		30	Granite dark gray	50 min				
		35						
		40						
		45						
		50	Weathered Rock (water)	11 min				
		55	Fractured rock					
		60						
		65						
		70						
		75						
80								
85								
90								
95								

Gravel for gravel pack:		32.20	M	Remarks and stoppage: Bore hole drilled to 64.40m (Yield 2.6m ³ /h) Prepared By: Rexson L. Keingo Approval : _____ Drilling Supervisor Contractor
Cement for grouting:		4	M	
Cleaning and development		2hrs	HRS	
Centralizers fitted	yes	No	✓	
Safety cap fitted	yes	No	✓	
Backfill aban.BH		yes	No	

Contractor		WINGIN		BH. REF. NO.	KLR1100-300	Nat. Grid ref.	Air Rotray
Company		Heramakono		Drilling Rig		Method	DAS VERA
Start date		2/04/2016		Completion date	2/04/2016	Operator	
Temp.	Scale	PROFILE		Time/ Depth M/Min	Water zone Cumulative Q(L/Min.)	WELL DIAGRAM with STATIC AND DYNAMIC WATER LEVEL Style	
	5	Laterite yellow brown		1.2			
	10	Clay reddish		3.0			
	15	Clay wet reddish		1.4			
	20	Clay wet brown		0.2			
	25						
	30						
	35						
	40						
	45						
	50						
	55						
	60						
	65	Granite gray		0.3			
	70						
	75						
	80						
	85						
	90						
	95						

Gravel for gravel pack:

Cement for grouting:

Cleaning and development

Centralizers fitted

Safety cap fitted

Backfill aban.BH

M

M

HRS

No

No

No

Remarks and stoppage: Bore hole drilled to 96.6m (dry bore hole)

Prepared By: Rexson L. Keingo

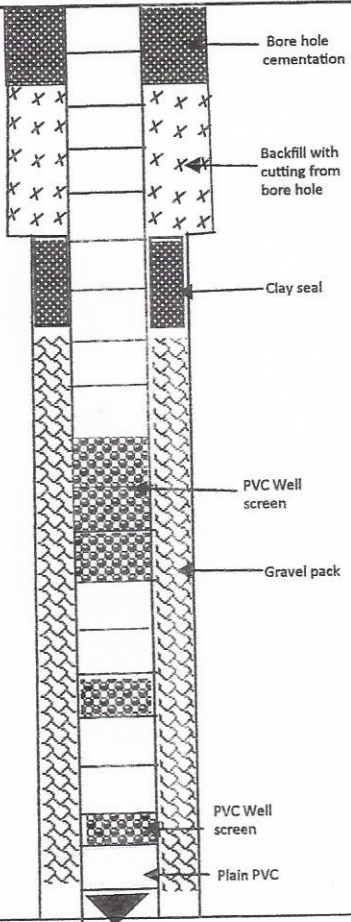
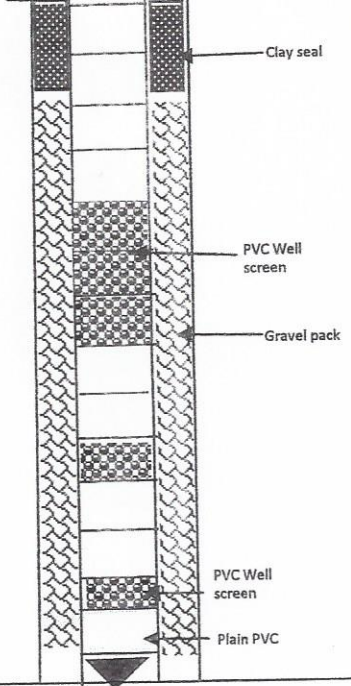
Approval :

Approval:

Drilling Supervisor

Contractor

MP

Borehole ref. No.		GPS Coordinates N 09° 379.524 W 011° 33.782		BH status		Successful	
BOREHOLE RECORD							
Drilling contractor		WINGIN		BH. REF. NO.		Nat. Grid ref.	
Community		Koromasiala		Drilling Rig		Method	
Drilling start date		11/04/2016		Completion date 11/04/2016		Operator	
Drilling start date		11/04/2016		Completion date 11/04/2016		Operator	
BH Size & Style	Temp. caisson	Scale	PROFILE	Time/Depth M/Min	Water zone Cumulative Q(L/Min.)	WELL DIAGRAM with STATIC AND DYNAMIC WATER LEVEL Style	
Step bit 212mm		5	Reddish/ brown	1.3			
		10	Wet granite	1			
		15	Granite/ gray	0.3			
203mm DTH Button bit		20	Fracture rock	0.4			
		25					
		30					
		35					
		40					
		45					
		50					
		55					
		60					
		65					
		70					
		75					
80							
85							
90							
95							

Gravel for gravel pack:	18.80	M	Remarks and stoppage: Bore hole drilled to 55.3m (Yield 3m ³ /h)
Cement for grouting:	4	M	
Cleaning and development	1hr:18min	HRS	
Centralizers fitted	yes	No	
Safety cap fitted	yes	No	
Backfill aban.BH	yes	No	Approval :

Prepared By: Rexson L. Keingo	Drilling Supervisor
Approval :	Contractor

HP

Ref. No.

GPS Coordinates N 09° 54.901 W 011° 26.624

BH status

Successful

dry

BOREHOLE RECORD

Drilling contractor	WINGIN	BH. REF. NO.		Nat. Grid ref.	
Community	Gbindi	Drilling Rig	KLR1100-300	Method	Air Rotray
Drilling start date	13/04/2016	Completion date	13/04/2016	Operator	DAS VERA

Size & Style	Temp. Caisson	Scale	PROFILE	Time/Depth M/Min	Water zone Cumulative Q(L/Min.)	WELL DIAGRAM with STATIC AND DYNAMIC WATER LEVEL	Style
Step bit 212mm		5	Laterite reddish brown	2.3			Bore hole cementation
		10	Clay/ light yellow	2.31			Backfill with cutting from bore hole
		15					Clay seal
		20					
		25	Hard rock gray	0.4			PVC Well screen
		30					Gravel pack
		35					
		40	Fracture rock	0.43			
		45					
		50					
		55	Hard Rock dark gray	0.5			PVC Well screen
		60					Plain PVC
		65					
		70					
		75					
		80					
		85					
		90					
		95					

Gravel for gravel pack:	20	M	Remarks and stoppage: Bore hole drilled to 64.4m (Yield 3m ³ /h)
Cement for grouting:	4.8	M	
Cleaning and development	1hr	HRS	Prepared By: Rexson L. Keingo
Centralizers fitted	yes	No	Drilling Supervisor
Safety cap fitted	yes	No	Approval :
Backfill aban.BH	yes	No	Contractor
			Approval:

MINISTRE DE L'EAU

DATE 16/05/2016

SIGN

KONAOUGU DIST. COUNCIL

48

Borehole ref. No.		GPS Coordinates		NIL	BH status		Successful	
BOREHOLE RECORD								
Drilling contractor		WINGIN		BH. REF. NO.		Nat. Grid ref.		
Community		Kumala		Drilling Rig		Method		Air Rotray
Drilling start date		15/05/2016		Completion date		Operator		DAS VERA
BH Size & Style		Temp. caisson	PROFILE		Time/Depth M/Min	Water zone Cumulative Q(L/Min.)	WELL DIAGRAM with STATIC AND DYNAMIC WATER LEVEL Style	
Step bit 212mm	5	Laterite Clay reddish	4.6					
	10							
	15							
	20							
	25							
203mm DTH Button bit	20	Sand clay	4.6					
	25	Fracture rock	1					
	30							
	35							
	40							
	45							
	50							
	55							
	60							
	65							
	70							
	75							
	80							
	85							
	90							
	95							

Gravel for gravel pack:		M	Remarks and stoppage: Bore hole drilled to 27.6m (break down of drilling rig)
Cement for grouting:		M	
Cleaning and development		HRS	
Centralizers fitted		yes No	
Safety cap fitted		yes No	
Backfill aban.BH		yes No	
Prepared By: Rexson L. Keingo			Drilling Supervisor
Approval :			Contractor
Approval:			