




<div></div>						<div>Start-Finish Date : 20.02.2018</div> <div>Trende/Plunge : Vertical</div> <div>Coordinate.X : 315488</div> <div>Coordinate.Y : 4705226</div> <div>Core Diameter : 89.00 mm.</div> <div>Elevation.Z (m) : 336.309</div> <div>D.Rig. Rotary : Hydraulic / Rotary</div> <div>Boring Depth : 36.00 m.</div> <div>Casing Depth : 36.00 m.</div> <div>Groundwater : 30.00 m.</div>						<div>BOREHOLE NO: BH-LNK-22</div> <div>(Page 1 / 3)</div>				
<div>SİSTEM ZEMİN MÜH. İNŞ. TİC.LTD.ŞTİ.</div> <div>GEORGIA NAMA KHVANI</div> <div>HPP CASCADE PROJECT</div>												<div>Undisturbed Sample : UD</div> <div>Core Sample : K</div> <div>Standart Penetration Test : SPT</div> <div>Pressuremeter Test : PMT</div> <div>Permeabilite Deneyi (Permeability Test) : PRB</div> <div>Packer Test : BST</div>				
Boring Depth (m)	Sample Type	Lugeon	Strength (R)	S (Spacing)	UCS (Mpa)	E(Gpa)	N30 Graph	TCR %	SCR %	RQD %	Weathering	Groundwater level	Z (m)	Profile	Prepared by Anıl KUTLUAY Geological Engineer	Approved by Dilara BAŞOĞUL Geological Engineer
							0 25 50						336.3		DESCRIPTION:	
0													336		0.00-1.00 m. MADE GROUND	
1	K												335		1.00-36.00 m.	
2	K												334		TALUS SLOPE	
3													333		Light beige to dark beige,	
4	K												332		LIMESTONE Blocks	
5	K												331		interbedded with angular,	
6													330		sub-angular gravels and	
7	K												329		blocks.	
8	K												328			
9													327			
10	K												326			
11	K												325			
12													324			
13	K												323			
14	K												322			
15																
Spacing			Strength Classification			Lugeon (Conductivity)			Rock Quality Designation			Weathering (W)				
S1 Ext.close spacing			(R0)<1 Mpa Ext. Weak Rock			<1 Low			0-25 Very Poor			W1 Fresh				
S2 Very close spacing			(R1)1-5 Mpa Very Weak Rock			1-5 Moderate			25-50 Poor			W2 Slightly Weathered				
S3 Close spacing			(R2)5-25 Mpa Weak Rock			5-25 High			50-75 Fair			W3 Mod. Weathered				
S4 Moderately spacing			(R3)25-50 Mpa Medium Rock			>25 Very High			75-90 Good			W4 Highly Weathered				
S5 Widely spacing			(R4)50-100 Mpa Strong Rock						90-100 Excellent			W5 Comp. Weathered				
S6 Very Widely spacing			(R5)100-250 Mpa Very Strong Rock													
S7 Ext. Widely spacing			(R6)>250 Mpa Ext.Strong Rock													

				Start-Finish Date : 20.02.2018 Trende/Plunge : Vertical Coordinate.X : 315488 Coordinate.Y : 4705226 Core Diameter : 89.00 mm. Elevation.Z (m) : 336.309 D.Rig. Rotary : Hydraulic / Rotary Boring Depth : 36.00 m. Casing Depth : 36.00 m. Groundwater : 30.00 m.				BOREHOLE NO: BH-LNK-22 (Page 2 / 3) Undisturbed Sample : UD Core Sample : K Standart Penetration Test : SPT Pressurimeter Test : PMT Permeabilite Deneyi (Permeability Test) : PRB Packer Test : BST								
SİSTEM ZEMİN MÜH. İNŞ. TİC.LTD.ŞTİ. GEORGIA NAMA KHVANI HPP CASCADE PROJECT																
Boring Depth (m)	Sample Type	Lugeon	Strength (R)	S (Spacing)	UCS (Mpa)	E(Gpa)	N30 Graph	TCR %	SCR %	RQD %	Weathering	Groundwater level	Z (m)	Profile	Prepared by Anıl KUTLUAY Geological Engineer	Approved by Dilara BAŞOĞUL Geological Engineer
							0 25 50						336.3		DESCRIPTION:	
15													321		1.00-36.00 m. TALUS SLOPE Light beige to dark beige, LIMESTONE Blocks interbedded with angular, sub-angular gravels and blocks.	
16	K												320			
17	K												319			
18													318			
19	K												317			
20	K												316			
21													315			
22	K												314			
23	K												313			
24													312			
25	K												311			
26	K												310			
27													309			
28	K												308			
29	K												307			
30																
Spacing S1 Ext.close spacing S2 Very close spacing S3 Close spacing S4 Moderately spacing S5 Widely spacing S6 Very Widely spacing S7 Ext. Widely spacing			Strength Classification (R0)<1 Mpa Ext. Weak Rock (R1)1-5 Mpa Very Weak Rock (R2)5-25 Mpa Weak Rock (R3)25-50 Mpa Medium Rock (R4)50-100 Mpa Strong Rock (R5)100-250 Mpa Very Strong Rock (R6)>250 Mpa Ext.Strong Rock			Lugeon (Conductivity) <1 Low 1-5 Moderate 5-25 High >25 Very High			Rock Quality Designation 0-25 Very Poor 25-50 Poor 50-75 Fair 75-90 Good 90-100 Excellent			Weathering (W) W1 Fresh W2 Slightly Weathered W3 Mod. Weathered W4 Highly Weathered W5 Comp. Weathered				

<div></div>					<div>Start-Finish Date : 20.02.2018 Trende/Plunge : Vertical Coordinate.X : 315488 Coordinate.Y : 4705226 Core Diameter : 89.00 mm. Elevation.Z (m) : 336.309 D.Rig. Rotary : Hydraulic / Rotary Boring Depth : 36.00 m. Casing Depth : 36.00 m. Groundwater : 30.00 m.</div>					<div>BOREHOLE NO: BH-LNK-22 (Page 3 / 3)</div> <div>Undisturbed Sample : UD Core Sample : K Standart Penetration Test : SPT Pressurimeter Test : PMT Permeabilite Deneyi (Permeability Test) : PRB Packer Test : BST</div>						
<div>SİSTEM ZEMİN MÜH. İNŞ. TİC.LTD.ŞTİ. GEORGIA NAMA KHVANI HPP CASCADE PROJECT</div>																
Boring Depth (m)	Sample Type	Lugeon	Strength (R)	S (Spacing)	UCS (Mpa)	E(Gpa)	N30 Graph	TCR %	SCR %	RQD %	Weathering	Groundwater level	Z (m)	Profile	Prepared by Anıl KUTLUAY Geological Engineer	Approved by Dilara BAŞOĞUL Geological Engineer
							0 2550						336.3		DESCRIPTION:	
30	K												306		0.00-36.00 m.	
31													305		TALUS SLOPE	
32	K												304		Light beige to dark beige,	
33													303		LIMESTONE Blocks	
34	K												302		interbedded with angular,	
35													301		sub-angular gravels and	
36	K												300		blocks.	
37													299		End of Borehole : 36.00 m.	
38													298			
39													297			
40													296			
41													295			
42													294			
43													293			
44													292			
45																
Spacing S1 Ext.close spacing S2 Very close spacing S3 Close spacing S4 Moderately spacing S5 Widely spacing S6 Very Widely spacing S7 Ext. Widely spacing			Strength Classification (R0)<1 Mpa Ext. Weak Rock (R1)1-5 Mpa Very Weak Rock (R2)5-25 Mpa Weak Rock (R3)25-50 Mpa Medium Rock (R4)50-100 Mpa Strong Rock (R5)100-250 Mpa Very Strong Rock (R6)>250 Mpa Ext.Strong Rock			Lugeon (Conductivity) <1 Low 1-5 Moderate 5-25 High >25 Very High			Rock Quality Designation 0-25 Very Poor 25-50 Poor 50-75 Fair 75-90 Good 90-100 Excellent			Weathering (W) W1 Fresh W2 Slightly Weathered W3 Mod. Weathered W4 Highly Weathered W5 Comp. Weathered				

PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	sistemzemin
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	BH-LNK-22	COREBOX NO	1-4
DATE DRILLED	20.02.2018	DEPTH (M)	0.00-13.00

0 1 m.



PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	sistemzemin
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	BH-LNK-22	COREBOX NO	2-4
DATE DRILLED	20.02.2018	DEPTH (M)	13.00-25.50

0 1 m.



PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	sistemzemin
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	BH-LNK-22	COREBOX NO	3-4
DATE DRILLED	20.02.2018	DEPTH (M)	25.00-35.00

0 **1 m.**



PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	sistemzemin
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	BH-LNK-22	COREBOX NO	4-4
DATE DRILLED	20.02.2018	DEPTH (M)	35.00-36.00

0 **1 m.**

