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TMR LIBRARY FILE 2014.GIB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6128 MT WHITESTONE COMBINED.GPJ <<DrawngFile>> Datgel CPT Tool glift Add-In 11/11/2015 15:25

ENGINEERING BOREHOLE LOG

BOREHOLE No	BH1B
SHEET	1 of5
REFERENCE No	11597

PRO	JECT	_M	t W	hiteston	e: S	lope Instability Investigation - Preliminary Inclin	<u>ome</u>	ter B	3or	reholes			
LOC	ATION	_G	<u>atto</u>	n-Cliftor	<u>R</u> d	, LHS table drain (Northern) Ch 15.173km					CC	ORDINATES <u>416243.3 E; 6937857.9</u>	<u> </u>
PRO	JECT No	<u>_</u> F	<u>G61</u>	28		SURFACE R.L214.88m PLUNGE				DATE STARTED 2	<u>3/6/</u>	14 GRID DATUM <u>MGA94</u>	
JOB	No	_				HEIGHT DATUM <u>AHD</u> BEARING _				DATE COMPLETED _2	<u>5/6/</u>	14 DRILLER Hinterland Dri	lling
O DEPTH (m)	R.L. (m)	AUGER WASH BORING		RQD ()%	SAMPLE	MATERIAL DESCRIPTION Drilling pad fill	LITHOLOGY	USC	WEALHERING	INTACT DEFECT STRENGTH SPACING (AS1726) LSTSJSJUDSOSSSI	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
- - - - - - -	213.88						17.						- - - - - - - -
- - - - - - -	212.88				A	Clayey Sand (COLLUVIUM) Pale grey brown, moist, medium dense.		(SC	;)			6,6,6; LL = 30; LS = 10.4	SPT
- - - - - -					В	Silty CLAY (COLLUVIUM) Pale grey mottled orange, moist, soft to very stiff with trace fine grained sand. Intermediate plasticity. Sandy in parts.						4,6,7	SPT -
-3 - - - - - -					С								U50 =
- -4 -					D								U50]
- - - -					Е							9,18,24	SPT -
- -5 -					F			(01)				11,15,22	SPT -
- - -					G			(CI))			8,12,19	SPT -
- -6 -					Н							8,13,18; LL = 42; PI = 26; LS = 12.8; MC = 15.8%	SPT -
- - - - - -7					1					± ± ±		10,16,20	SPT -
- 8					J	Becoming sandy CLAY with iron concretions up to 40mm in size.						29,27,30/130mm	SPT -
- 9 - 10	206.18			96		Sandy CLAY with Cobbles and Boulders (COLLUVIUM) Orange brown, moist. Generally comprises a hard Sandy Clay of intermediate plasticity which contains a mix of high strength cobbles and boulders up to 250mm size. Occasional boulders up to 1m size.		(CI))		•	– Sandstone boulder	
F	EMARKS	s <u>*L</u>	oad	cell used	d doe	es not comply with the test method requirements.						LOGGED BY	
		_	_									TH/WW	



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ENGINEERING BOREHOLE LOG

BOREHOLE No	BH1B
SHEET	2 of5
REFERENCE No	11597

	JECT ATION				ope Instability Investigation - Preliminary Inclin LHS table drain (Northern) Ch 15.173km				eholes					_ 7.9 N
					SURFACE R.L214.88m PLUNGE								DATUM MGA94	
JOB					LIEIGUE DATUM AUD DEADING				DATE COMF				DRILLER Hinterland [rilling
DEPTH (m)	R.L. (m)	UGER ASH BORING ORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	SC	EALHERING	INTACT STRENGTH (AS1726)	DEFECT SPACING (AS1726)	GRAPHIC LOG		OITIONAL DATA AND SST RESULTS	SAMPLES
10	204.88	₹≷ŏ T∏	REC %	$\overline{}$	Sandy CLAY with Cobbles and Boulders	=	<u>"</u> ≥	> _			5			S E
- 11			95		(COLLUVIUM) (Cont'd) As before.							Soft clay sea	am er with rock fragments	
- - - - - - - - - - - - -												Sandstone c		
- 14									: : : : : : ‡			Sandstone c	obble	-
-									<u> </u>					
- - - - - - - - - - - - - - - - - - -			50				(CI))				Soft clay sea	am with rock fragments	
- - - - - - - - - - -			100									Soft clay sea	am with rock fragments	
- - - 18 -												Soft clay sea	am with rock fragments	-
- - - - - - 19 - - -			97	X								Sandstone b	oulder up to 1m size. UCS=354kP	a
20							1		· · · · · · I					
R	REMARKS *Load cell used does not comply with the test method requirements.									-	LOGGED BY TH / WW			



ENGINEERING BOREHOLE LOG

BOREHOLE No	<u>BH1B</u>
SHEET	3 of5
REFERENCE No	11597

LOCATION Gatton-Clifton Rd, LHS table drain (Northern) Ch 15.173km COORDINATES 416243.3 E; 6937857.9 N							
	DATUM MGA94						
JOB No HEIGHT DATUM <u>AHD</u> BEARING DATE COMPLETED <u>25/6/14</u> D	RILLER <u>Hinterland Drilling</u>						
R.L.	TIONAL DATA						
등 출금 MATERIAL 중 를 (AS1726) 의							
S	AND GAMPLES AND STRESULTS AND STRESULTS						
20 194.88 < O REC % Ø	SAI SAI						
Sandy CLAY with Cobbles and Boulders (COLLUVIUM) (Cont'd)							
Às before.							
	%Pass 2.360mm = 97 %Pass 0.075mm = 57						
	%Pass 0.002mm = 24						
97 97 Sett statement							
Soft clay sear							
Fracture at 30)° planar, polished, tight						
Fracture at 60 & clean	o° planar, polished, tight						
CI)							
Fracture at 30	0° planar, polished, tight						
2 & clean & clean Fracture at 50)° planar, polished, tight						
26 & clean	pianar, polistica, tigrit						
Soft clay sear	n						
23 97 -Soft clay sear -Broken zone Fracture at 30 & clean - Soft clay sear - Soft clay							
	4						
-28	%Pass 2.360mm = 99 %Pass 0.075mm = 77						
polished, tight & clean	%Pass 0.075mm = 77 %Pass 0.002mm = 35 UCS=458kPa						
	UCS=450KPa						
REMARKS *Load cell used does not comply with the test method requirements.	LOGGED BY TH / WW						



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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No ___BH1B ___

SHEET __4__ of __5__

REFERENCE No ___11597 ___

PRO					ope Instability Investigation - Preliminary Incline												
					LHS table drain (Northern) Ch 15.173km									ORDINATE		<u>3 E; 6937857.9</u>	<u>N</u>
		<u>FG</u> 6	128		SURFACE R.L. <u>214.88m</u> PLUNGE												
JOB	No				HEIGHT DATUM _AHD BEARING			D.	ATE CON	ИPL	ETE!	D <u>2</u>	<u>5/6/1</u>	4	DRILLER	<u>Hinterland Dri</u>	lling
DEPTH (m)	R.L. (m)	JGER ASH BORING DRE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	SC EATHERING		INTACT IRENGTH (AS1726)		DEFEC		GRAPHIC LOG		DDITIONAL D AND EST RESUL		SAMPLES
30	184.88	₹≷ŏ T∏	REC %		Condu CI AV with Cabbles and Bauldon	5	3 ≥ 1	\$ 1		Ţ	111	11	9				/S ==
-31	183.64		96 100		Sandy CLAY with Cobbles and Boulders (COLLUVIUM) (Cont'd) As before. Interbedded SILTSTONE and SANDSTONE XW: Recovered as orange grey, moist, hard, sandy CLAY. HW:Grey to light grey very low to extremely	× × × × × × × × × × × × × × × × × × ×		,						Basalt frag Broken zo Broken zo	Is(50) Is(50) of standpipe p		x
-					low strength with some iron staining. Laminations at 45° in parts.	× ×										= 0.06MPa; * = 0.07MPa; *	x -
-33	180.85		94	\times	Deformed, sheared and fractured throughout. Defects: J: 35° (<1/m); Pl/Ro, TI, Fe St.		HW	1						_ zone?) _ Relict sheater _ Soft clay larger rock fragm _ 33.8m tip larger _ Relict sheater	ayer with very lents of standpipe pier zone?	ow strength ezometer	- - - - - - - - - - - - - - - - - - -
- 35			(100)		SW:Grey to dark grey, fine grained, generally medium strength. Laminations at 0-5°. Defects: LP: 0-5° (1/m); PI/Ro, TI.	× × × × × × × × × × × × × × × × × × ×								Sandstone interbeds		= 0.39MPa; * = 0.24MPa; *	x -
-36			(97)			× × × × × × × × × × × × × × × × × × ×	SW	<i>y</i>									
			100 (40)		38.12 - 38.52m Black mudstone / grey	× × × × × ×								& clean	ls(50) t 15° planar, po	= 0.51MPa; * = 0.27MPa; * blished, tight	X - 0 -
-39			(83)		25. 12 - 36.52 H Black Hudstorie / grey claystone Defects: Js 10-15° (<1/m); PL/Sm-SI, TI. Js 25-30° (2/m); PL/Sm-SI, TI. Js 40-45° (1/m); PL/Sm-SI, TI. Js 70° (<1/m); PL/Sm-SI, TI.	× × × × × × × × × × × × × × × × × × ×								Soft clay la	t 70° planar, po ls(50)	olished, tight = 0.23MPa; * = 0.38MPa; *	X - 0
R	EMARKS	s *Loa	d cell used	d doe	s not comply with the test method requirements.											OGGED BY	
																TH/WW	



ENGINEERING BOREHOLE LOG

BOREHOLE No	BH1B
SHEET	<u>5</u> of <u>5</u>
REFERENCE No	11597

PRO	JECT					ope Instability Investigation - Preliminary Incl							
						, LHS table drain (Northern) Ch 15.173km						OORDINATES <u>416243.3 E; 6937857.9</u>	
						SURFACE R.L. 214.88m PLUNGE							
JOB	No					HEIGHT DATUM <u>AHD</u> BEARING				DATE COMPLETED _	<u>25/6/</u>	/14 DRILLER <u>Hinterland Dril</u>	lling
DEPTH (m)	R.L. (m)	AUGER WASH BORING SORF DRILLING	CONE DNIEEING	RQD ()% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	اهل	NEATHERING	INTACT STRENGTH (AS1726) LINE STRENGTH (AS1726) DEFECT SPACING (AS1726) AS1726) DEFECT SPACING (AS1726) DEFECT SPACING (AS1726)	EW GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
40	174.88		Í	ILO 70	0,	Interbedded SILTSTONE and SANDSTON		ŧ	-1-			Inclinometer installed	0, 1
- - - -	174.13			98		SW: (Cont'd) As before.	× × ×	X X X	SW				-
- - -41						Borehole terminated at 40.75m				<u> </u>			-
-													
-													-
- - -42													-
-													
-										: : : : : : : : : : : : : : : : : : : : : : : :			-
- - -43													
,													
-													-
-													
-44 -													-
-										<u> </u>			_
-													
- 45 -													-
- - -										: : : : : : : : : : : : : : : : : : :			
-										 			-
- - -46													-
- -													
- - -													-
-													
47 - -													
-43 -44 -45 -46 -47 -47 -48													_
- 48 -													
-													
-													
- - -49										#			
-													
-													
50										#			
	REMARKS	<u>*L</u> c	ad	cell use	d doe	es not comply with the test method requirements.						LOGGED BY TH / WW	
		_										-	

CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS Geotechnical Section 35 Butterfield Street, Herston Qld 4006 Phone 07 3066 3336



Project Name	Mt Whitestone: Slope Instability Investigation, Supp. Inclinometer Boreholes										
Project No.	FG6128	Date	23/6/14								
Borehole No.	BH1B	TMR H No.	H11597								
Location	Gatton-Clifton Rd	Start Depth (m)	8.70m								
Detail	LHS table drain	Finish Depth (m)	40.75m								
Chainage	Ch 15.308km	Prepared By	TAH								
Remarks		·									



Page 1 GEOT043/2

CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS Geotechnical Section 35 Butterfield Street, Herston Qld 4006 Phone 07 3066 3336



Project Name	Mt Whitestone: Slope Instability Investigation, Supp. Inclinometer Boreholes										
Project No.	FG6128	Date	23/6/14								
Borehole No.	BH1B	TMR H No.	H11597								
Location	Gatton-Clifton Rd	Start Depth (m)	8.70m								
Detail	LHS table drain	Finish Depth (m)	40.75m								
Chainage	Ch 15.308km	Prepared By	TAH								
Remarks											

