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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 gillt Add-In 11/11/2015 15:25

ENGINEERING BOREHOLE LOG

BOREHOLE No	<u>BH3A</u>
SHEET	<u>1</u> of <u>5</u>
REFERENCE No	11527

PROJECT	_M	<u>t W</u>	<u>hiteston</u>	e: SI	ope Instability Investigation - Preliminary Inclin	<u>ome</u>	ter E	3or	reholes			
LOCATIO											ORDINATES <u>416148.0 E; 6937750.4</u>	<u>N</u>
	No_F				SURFACE R.L. <u>214.40m</u> PLUNGE _							
JOB No	_				HEIGHT DATUM <u>AHD</u> BEARING _				DATE COMPLETED 6	12/13	B DRILLER Northcoast	
DEPTH (m)	AUGER CASING	ASH BORING ORE DRILLING		SAMPLE	MATERIAL DESCRIPTION	ГІТНОГОСУ	USC	EATHERING	INTACT DEFECT STRENGTH SPACING (AS1726) L□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	RAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
0 214	40 ^주	Šŏ	REC %	/S	Silty SAND (COLLUVIUM)		<u> </u>	≥ _		9		% <u>₽</u>
-1					Mottled yellow brown with some gravel - based on drillers logs. Clayey in parts.		(SM	1)				
211	40								<u> </u>			-
- - -				Α	Clayey SILT (COLLUVIUM) Orange grey, dry, hard.						13,22,30	SPT
							(ML	-)				
6 208 	40			В	Sandy CLAY (COLLUVIUM) Grey brown mottled orange, moist, hard. Intermediate plasticity with some organic matter and angular gravel sized to 15mm.		(CI				7,16,25	SPT -
-9 -10	240 *5	See r	ogint loss	C	Sub angular rock fragments sized to 35mm and iron concretions sized to 10mm. results for details of this test						11,17,29 LOGGED BY	SPT -
i VEIVIAI								 			TAH	



ENGINEERINGBOREHOLE LOG

BOREHOLE No	<u>BH3A</u>
SHEET	2 of5
REFERENCE No	11527

COOR PROJECT No FG6128 SURFACE R.L. 214.40m PLUNGE DATE STARTED 3/12/13 JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 6/12/13 R.L. (M) DOWN (CORE DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION SANGE CORE DESCRIPTION SANGE CORE DESCRIPTION SANGE DESCRIPTION DESCRIPTION SANGE DESCRIPTION DESCRIPTION SANGE DESCRIPTION SANGE DESCRIPTION DESCRIPTI	
JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 6/12/13 (E) R.L. (m)	ADDITIONAL DATA
R.L.	ADDITIONAL DATA
(E) (M) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D	
Sandy CLAY (COLLUVIUM) (Cont'd)	
	18,29,30/100 SPT -
	-
-14 -15 -(CI)	-
	11,14,17 SPT -
-16	
	-
	Possible cobble 30/130 SPT _
	-
REMARKS *See point load test results for details of this test	LOGGED BY TAH



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

ENGINEERING BOREHOLE LOG

BOREHOLE No	<u>BH3A</u>
SHEET	_3_ of _5_
REFERENCE No	11527

PRO	IECT	Mt Whitestone: Slope Instability Investigation - Preliminary Inclinometer Boreholes										
LOCA	TION	N Gatton-Clifton Rd, RHS table drain, approx Ch 15.30km COORDINATES 416148.0 E; 6937750.4 N										
PRO	IECT No	F <u>G</u> 6	128		SURFACE R.L214.40m PLUNGE				DATE STARTED 3	/ <u>12/</u>	13 GRID DATUM <u>MGA94</u>	
JOB I	No				HEIGHT DATUM _AHD BEARING				DATE COMPLETED 6	/ <u>12/</u>	DRILLER Northcoast	
OEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	ГІТНОГОСУ	USC	WEALHERING	INTACT DEFECT STRENGTH SPACING (AS1726) (AS1726)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
-21	10-1-10			G	Sandy CLAY (COLLUVIUM) (Cont'd)		(CI				12,28,30/140	SPT -
- 24	190.40		(100) 100 (100) 100 (100) 100 (53) 80 (79) 100 (93) 100 (73)	*	Sandy CLAY with Cobbles and Boulders (COLLUVIUM) Orange brown, moist, hard. With high strength rock fragments and boulders sized to 900mm.							SPT
R	EMARK	S *See	point load	d test	results for details of this test						LOGGED BY TAH	



ENGINEERING BOREHOLE LOG

BOREHOLE No	<u>BH3A</u>
SHEET	_4_ of _5_
REFERENCE No	11527

PROJECT	Mt Whitestone: Slope Instability Investigation - Preliminary Inclinometer Boreholes								
LOCATION	Gatton-Clifton Rd, RHS table drain, approx Ch 15.30km COORDINATES 416148.0 E; 6937750.4 N								
PROJECT No		SURFACE R.L. 214.40m PLUNGE							
JOB No		_ HEIGHT DATUM <u>AHD</u> BEARING			DATE COM	PLETED <u>6</u>	<u>12/</u>	13 DRILLER Northcoast	
R.L. (m) HE	AUGER (VASNH BORING CORE DRILLING SAND SAND SAND SAND SAND SAND SAND SAND	MATERIAL DESCRIPTION		LHERIN(INTACT STRENGTH (AS1726)	DEFECT SPACING (AS1726)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
-		Sandy CLAY with Cobbles and Boulders	00	'					-
- - -31 - 183.18	100 (98)	(COLLUVIUM) (Cont'd)	0	CI)					- - - - -
	100	Interbedded SILTSTONE and SANDSTONE	× × × ×					Relict shear zone with bedding at 45°]
- 182.50 - 32 - 32	(72)	Fine to medium grained sedimentary rock composed of interbeds of sand and silt siz particles. HW: Pale grey to grey, fine to medium grained, low strength with some ironstaining along fracture surfaces. Bedding at 10-15°. Defects: Js: 30° (<1/m); PI/Ro-Sm, TI-CD, FeSt.	ed × H'	łW				Bedding at 0-5° SW band Is(50) = 0.29MPa; *	
- - 33	95	Js: 60-70° (10/m); Pl/Ro-Sm, Tl-CD, FeSt. SILTSTONE						— Clay Sealli	_
1	(45)	MW: Grey, fine grained, medium strength. XW and fractured zones throughout. Defects: Js: 0-20° (3/m); PI-Stp/Ro-Sm, TI-OP. Js: 40-50° (2/m); PI-Stp/Ro-Sm, TI-OP. Js: 70° (<1/m): PI-Stp/Ro-Sm, TI-OP.	× × × × × × × × × × × × × × × × × × ×	/IVV				Is(50) = 0.16MPa; * Is(50) = 0.63MPa	X
2 -	94							☐─ Fractured coal seam]
35 - 35 35 	(60) 100 (43)		× × × × × × × × × × × × × × × × × × ×					— Fractured coal seam — Clay seam — Broken zone	-
- - - - 36			× × × ×						-
			X					- Clay seam	- - - -
37 477 20	100		× × × ×					☐ HW band ☐ Fractured coal seam	=
177.28	(91)	Interbedded SILTSTONE and SANDSTONE SW: Grey to pale grey, fine to medium grained, medium strength. Occasional XW - HW zones and coaliferous inclusions. Defects: Js: at 0-10° (3/m); PI-Stp/Ro-Sm, TI-OP.	× × × × × ×					=HW band =-Clay seam Is(50) = 0.44MPa; * Is(50) = 0.79MPa	x -
N	100 (81)	Js: at 8-90° (2/m); Pl-Stp/Ro-Sm, Tl-OP.	× × × × × × × × × × × × × × × × × × ×	SW				⊒– HW band with coal fragments ⊐– Clay seam	
40			× × × × × × × ×					Is(50) = 0.37MPa; * Is(50) = 0.94MPa	x - o -
REMARK	S *See point load tes	st results for details of this test						LOGGED BY TAH	



ENGINEERINGBOREHOLE LOG

BOREHOLE No	<u>BH3A</u>
SHEET	<u>5</u> of <u>5</u>
REFERENCE No	11527

PROJECT No <u>FG6128</u> SURFACE R.L. <u>214.40m</u> PLUNGE DATE STARTED <u>3/12/13</u> GRID DATUM <u>MGA94</u>	PROJECT No. FG6128 SURFACER L. 214.46m PLUNGE DATE STARTED 3/12/13 GRID DATUM MG494	PROJECT	ROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinometer Boreholes				
DBNO	Delication Del	LOCATION	Gatton-Clifton Ro	l, RHS table drain, approx Ch 15.30km	COORDINATES 416148.0 E; 6937750.4	<u>N</u>	
RZL	RIL	PROJECT No	FG6128	SURFACE R.L. <u>214.40m</u> PLUNGE _	DATE STARTED 3/12/13 GRID DATUM MGA94		
## ADDITIONAL DATA ## AND TERM ## DESCRIPTION ## D	MATERIAL DESCRIPTION STREAM STREAM DESCRIPTION STREAM DESCRIPTION DESC	JOB No		HEIGHT DATUM AHD BEARING	DATE COMPLETED 6/12/13 DRILLER Northcoast		
100 100	Interbodded SILTSTONE and SANDSTONE SW: (Contd) SW: (Con	田 (m)	%() %		INTACT DEFECT STRENGTH SPACING SO O O O O O O O O O O O O O O O O O O	SAMPLES	
48	48 49 60 REMARKS *See point load test results for details of this test LOGGED BY	-41 -41 42 42 43 43	100 (87)	SW: (Cont'd)	X	x	
REMARKS *See point load test results for details of this test LOGGED BY	TAH	48	s *See point load tes	t results for details of this test			

DEPARTMENT OF TRANSPORT & MAIN ROADS Geotechnical Branch 35 Butterfield Street, HERSTON Qld 4006 Phone 07 3066 3336



Project Name	Mount Whitestone Cutting		
Project No	FG 6128	Date	04/12/13
Borehole No	BH 3A	TMR H No	11527
Location	Gatton- Clifton Road	Start Depth (m)	24.00
Detail		Finish Depth (m)	41.53
Chainage		Submitted By	J. Lopez
Remarks			
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DEPARTMENT OF TRANSPORT & MAIN ROADS Geotechnical Branch 35 Butterfield Street, HERSTON Qld 4006 Phone 07 3066 3336



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Project Name Project No	Mount Whitestone Cutting FG 6128	Date	04/12/13
Borehole No	BH 3A	TMR H No	11527
Location	Gatton- Clifton Road		24.00
Detail	Gatton- Ciliton Road	Start Depth (m)	
		Finish Depth (m)	41.53
Chainage Remarks		Submitted By	J. Lopez
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DEPARTMENT OF TRANSPORT & MAIN ROADS Geotechnical Branch 35 Butterfield Street, HERSTON Qld 4006 Phone 07 3066 3336



Project Name Mount Whitestone Cutting			
Project No	FG 6128	Date	04/12/13
Borehole No	BH 3A	TMR H No	11527
Location	Gatton- Clifton Road	Start Depth (m)	24.00
Detail		Finish Depth (m)	41.53
Chainage		Submitted By	J. Lopez
Remarks			
0 100 200 300 400 500 600 700			
SCALE 1:5			