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# ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM F:GEOT 017/7-2014

BOREHOLE No   BH1A    
SHEET   1   of   4    
REFERENCE No   11525  

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes  
LOCATION Gatton-Clifton Rd, LHS table drain, approx Ch 15.17km COORDINATES 416244.0 E; 6937858.8 N  
PROJECT No FG6128 SURFACE R.L. 214.83m PLUNGE          DATE STARTED 21/11/13 GRID DATUM MGA94  
JOB No          HEIGHT DATUM AHD BEARING          DATE COMPLETED 26/11/13 DRILLER Northcoast

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ( ) %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH (AS1726)	DEFECT SPACING (AS1726)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	214.83					<b>Sandy CLAY (COLLUVIUM)</b> Grey orange, moist, firm to stiff. Intermediate plasticity with minor organic inclusions and angular gravel sized to 10mm.							
1													
2													
3					A								
4													
5													
6					B								
7													
8													
9					C	Becoming orange brown silty CLAY, heavily iron stained with occasional iron concretions.							
10													

REMARKS \*See point load test results for details of this test


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# ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND  
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BOREHOLE No   BH1A    
SHEET   2   of   4    
REFERENCE No   11525  

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LOCATION Gatton-Clifton Rd, LHS table drain, approx Ch 15.17km COORDINATES 416244.0 E; 6937858.8 N  
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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ( ) %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH (AS1728)				DEFECT SPACING (AS1728)				GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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10	204.83					Sandy CLAY (COLLUVIUM) (Cont'd)		(Cl)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

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# ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM F:GEOT 017/7-2014

BOREHOLE No BH1A  
SHEET 3 of 4  
REFERENCE No 11525

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes  
LOCATION Gatton-Clifton Rd, LHS table drain, approx Ch 15.17km COORDINATES 416244.0 E; 6937858.8 N  
PROJECT No FG6128 SURFACE R.L. 214.83m PLUNGE \_\_\_\_\_ DATE STARTED 21/11/13 GRID DATUM MGA94  
JOB No \_\_\_\_\_ HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 26/11/13 DRILLER Northcoast

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ( ) %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH (AS1726)	DEFECT SPACING (AS1726)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
20	194.83											
			100 (95)		<b>Sandy CLAY with Cobbles and Boulders (COLLUVIUM) (Cont'd)</b>							
21												
			100 (76)									
22												
			100 (94)									
23												
			100 (92)									
24												
			100 (89)									
25												
			97 (65)									
26												
			34 (90)									
27												
			100 (100)									
28												
29												
30												

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# ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND  
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BOREHOLE No BH1A  
SHEET 4 of 4  
REFERENCE No 11525

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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH (AS1728)	DEFECT SPACING (AS1728)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
30	184.83											
31	183.77		100 (93)		<b>Sandy CLAY with Cobbles and Boulders (COLLUVIUM) (Cont'd)</b>	(CL)					Basalt fragments	
32			86 (100)		<b>SILTSTONE</b> Fine grained sedimentary rock composed of silt sized particles <b>XW:</b> Generally exhibits the engineering properties of Pale grey mottled orange, moist, hard, silty clay. Contains 290mm thick relict shear zone.	XW					Thinly bedded @ 45° Clay seam Core loss	
33	182.25		100 (76)		<b>HW:</b> Grey to pale grey, fine grained, low strength. thinly laminated in parts. Contains relict shear zone and coal seams. Defects: BP: 0°-10° (2/m); PI-Un/Sm-Ro, CD-OP.	HW					Relict shear zone Crushed coal seam	
34	180.73		100 (100)		<b>MW:</b> Grey to pale grey, fine grained, medium strength. Occasional medium grained Sandstone interbeds up to 250mm thick. Defects: Js: 15° (2/m); PI-Un/Ro, CD-OP. Js: 70° (2/m); PI-Un/Ro, CD-OP. PB: 0-10° (2/m); PI-Un/Ro, CD-OP.	MW					Is(50) = 0.66MPa Is(50) = 0.07MPa; * Sandstone interbed	o x
35			100 (78)								Is(50) = 0.60MPa Is(50) = 0.38MPa; * VWP installed	o x
36	179.03		100 (0)		Borehole terminated at 35.8m	SW					Clay seam Sandstone interbed Is(50) = 0.65MPa Is(50) = 0.37MPa; *	o x
37											Sample not retrieved Inclinometer installed	
38												
39												
40												

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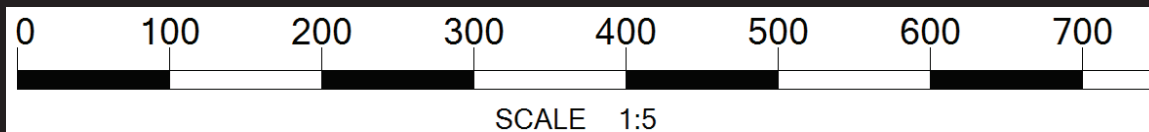
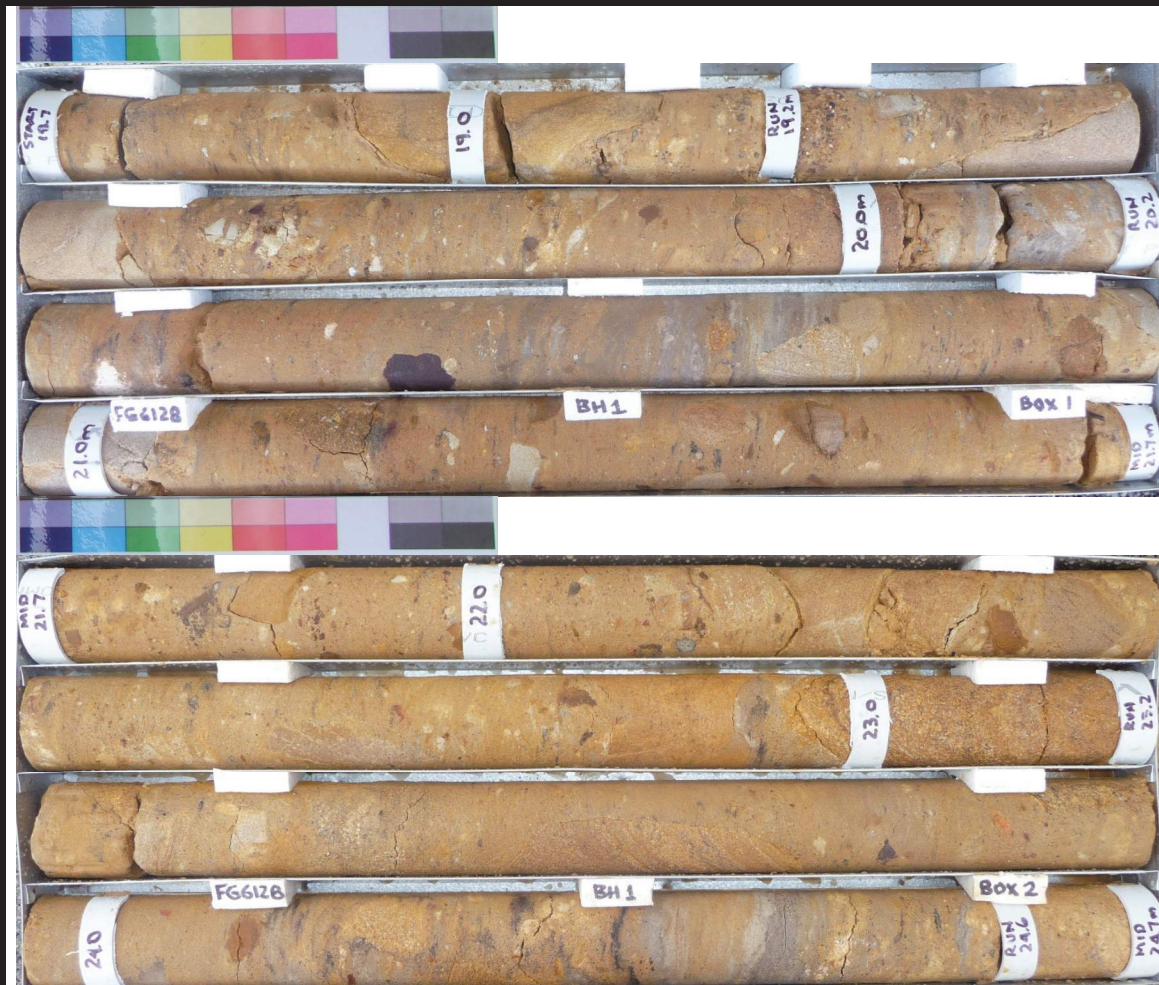
# CORE PHOTO LOG

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



Department of  
Transport and Main Roads

Project Name	Gatton-Clifton Rd: Investigation of Instability at Mt Whitestone		
Project No	FG 6128	Date	21/11/13
Borehole No	BH 1A	TMR H No	11525
Location	LHS table drain (Northern),	Start Depth (m)	18.70
Detail		Finish Depth (m)	35.80
Chainage	Ch 15.04 - 15.4km	Submitted By	J. Lopez
Remarks			



# CORE PHOTO LOG

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Remarks			



SCALE 1:5



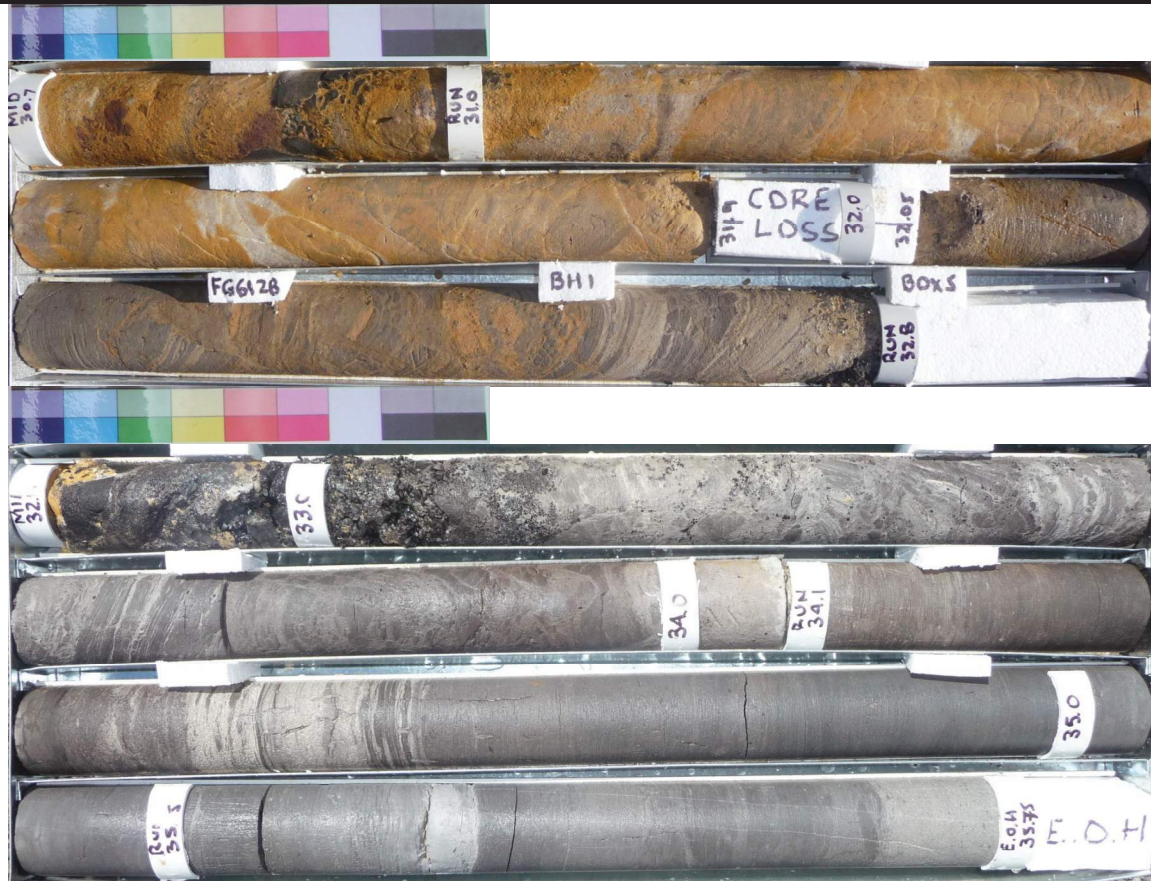
# CORE PHOTO LOG

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SCALE 1:5