Queensland Government

ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No BH C55
SHEET 1 of 3
REFERENCE No H11054

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 16 COORDINATES 470495.9 E; 7097369.8 N
PROJECT No FG5799 SURFACE R.L. 84.60m PLUNGE DATE STARTED 20/06/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 20/06/11 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
0	84.60				**TOPSOIL:** Grey, dry, organic.							Based on driller's logs only		
	83.90				**Silty CLAY (Residual):** Mottled brown, moist, very stiff, intermediate plasticity, occasional organics.		(Cl)					4,9,9 N=18		SPT
	83.00			A	**SILTSTONE (HW):** Pale grey, fine grained.		HW					30/30mm N>50; No recovery		SPT
	81.50		(42)	B	**SILTSTONE (MW):** Grey mottled with brown, fine grained, subtly foliated, high strength, indurated and/or slightly metamorphosed. Defects: -Joint at 5°-10° (1-2/m) -Joint at 60°-65° (<1/m) Defects are medium spaced. Defect surfaces are planar, tight or open, clay infilled.							Blade refusal Is(50) = 1.77MPa Is(50) = 2.06MPa		x o
			100 (10)											
			100 (34)				MW					Is(50) = 1.03MPa Is(50) = 2.65MPa DD = 2.56t/m³; WD = 2.60t/m³; MC = 1.2%; UCS=7.2MPa		x o UCS
			100 (50)									Is(50) = 1.85MPa Is(50) = 1.44MPa FP, 45°, Clnf		x o
			100 (58)											
			100 (69)									Is(50) = 3.00MPa Conglomeritic Interbed		x

REMARKS

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QLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG46352.GDW Datgel CPT Tool gINt Add-in 12/12/2011 16:30

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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 (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
10	74.60				**SILTSTONE (MW):** Cont'd		MW					Conglomeritic Interbed		
	74.00				**SILTSTONE (SW):** Grey, fine grained, subtly foliated, high to very high strength, indurated and/or slightly metamorphosed. Defects: -Foliation parting at 40°-45° (4/m) -Joint at 60°-65° (<1/m) -Joint at 75° (<1/m) Defects are generally medium to widely spaced. Defect surfaces are planar, open or tight, smooth, thinly clay infilled.									
11			100 (60)									Is(50) = 5.74MPa Is(50) = 3.90MPa	x o	
12												BZ		
13			100 (87)									J, 65°, QZ Total water loss at 12.9m. Is(50) = 1.46MPa Is(50) = 3.30MPa	x o	
14			100 (77)											
15							SW					FP, QZ Is(50) = 2.81MPa Is(50) = 3.01MPa	x o	
16			100 (94)									FP, QZ		
17												FP, QZ FP, QZ		
18			100 (100)									FP, QZ DD = 2.65t/m^3; MC = 0.3%; USC=32.3MPa Is(50) = 2.02MPa	UCS x	
19			100 (54)											
20												Is(50) = 1.47MPa	x	

REMARKS

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OLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG46352.GDW Datgel CPT Tool gINt Add-In 12/12/2011 16:30

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20	64.60													
	64.30		100		**SILTSTONE (SW):** Cont'd	××× ×××	SW					Is(50) = 3.83MPa		o
					Borehole terminated at 20.3m									
21														
22														
23														
24														
25														
26														
27														
28														
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30														

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REMARKS

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DEPARTMENT OF TRANSPORT & MAIN ROADS
Geotechnical Branch
35 Butterfield Street, HERSTON Qld 4006
Phone 07 3115 3035 Fax 07 3115 3011

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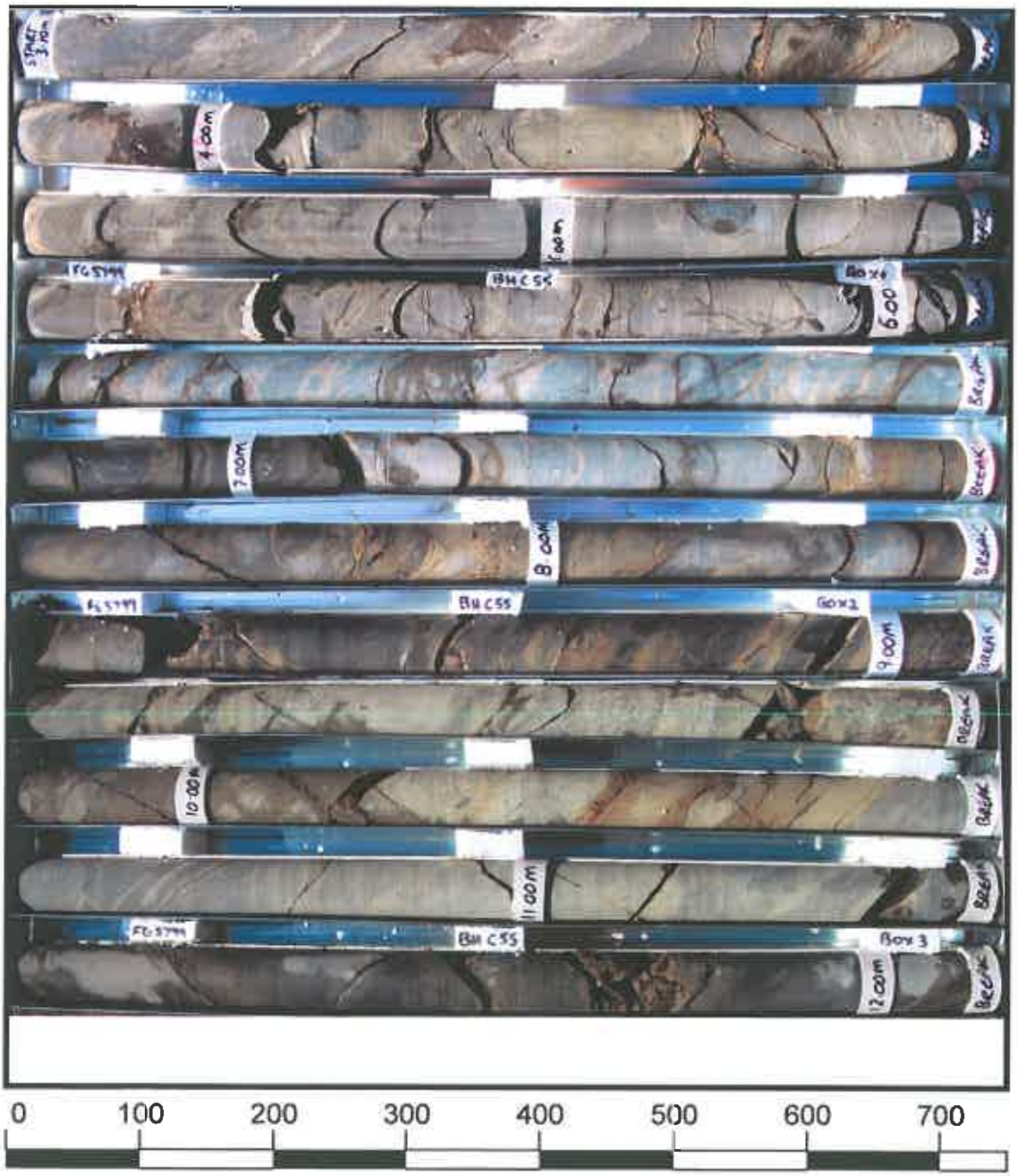
CORE PHOTO LOG - BH C55

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 16	Start Depth (m):	3.10
Reference No.:	H11054	Finish Depth (m):	20.30



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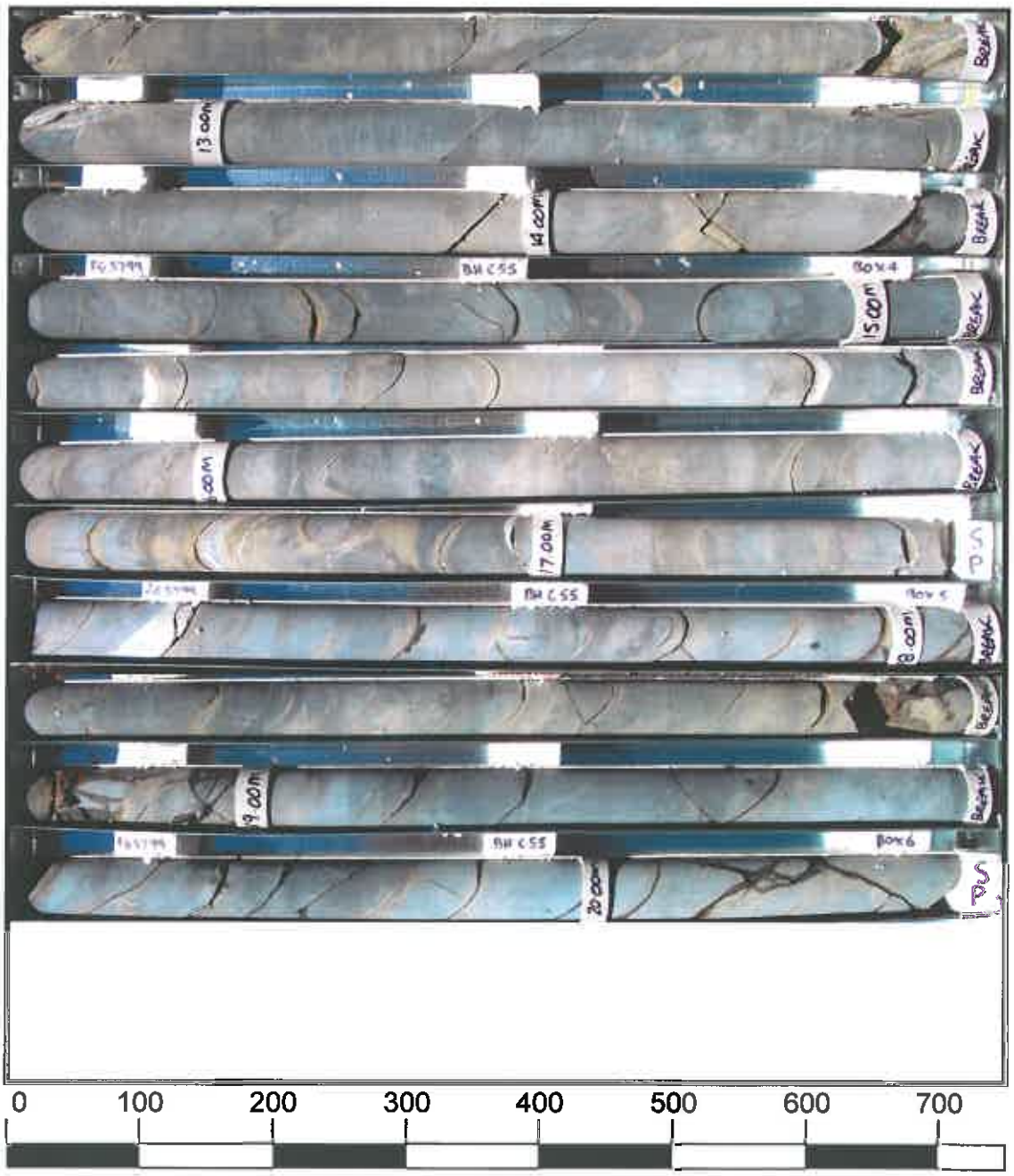

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