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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C03
SHEET 1 of 2
REFERENCE No H11102

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 1 COORDINATES 473312.3 E; 7087535.8 N
PROJECT No FG5799 SURFACE R.L. 84.70m PLUNGE DATE STARTED 05/09/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 05/09/11 DRILLER Cairns Drilling Contract

DEPTH (m)	R.L. (m)	AUGER Casing Boring Core Drilling	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	84.70				TOPSOIL: Mottled dark grey, very soft.							
	84.55				Gravelly Silty CLAY (Residual): Mottled red/brown, firm, slightly moist. Minor organics. Gravel portion is less than 6.7mm.		(Ci)				Based on driller's logs only	
1	83.70			A	METASILTSTONE (XW): Generally exhibits the engineering properties of a brown/grey, fine grained, moist, very stiff to hard, intermediate to high plasticity, silty clay.	XW					6,13,11 N=24	SPT
2				B							30/100 N>50	SPT
3	81.70		(0)		METASILTSTONE (SHEAR ZONE) (HW): Grey to brown, fine grained, sheared throughout, very low to low strength with occasional high strength bands, highly fractured throughout.	HW						
4			76 (20)		Defects: - Joints at 70° (1-2/m) - Broken clayey zones up to 300mm - Quartz infilled fractures throughout							
5			100 (0)		Defect spacing is generally very close. Defect surfaces are planar or irregular, tight, clay infilled.							
6	78.84		100 (11)		METASILTSTONE (MW): Grey, fine grained, subtly foliated, high strength, closed quartz infilled fractures throughout.	MW						
7			100 (11)		Defects: - Joint at 50° (2/m) - Joint at 70° (2/m) - Closed fractures throughout with quartz infilling							
8			100 (0)		Defect spacing is generally close to medium. Defect surfaces are planar or irregular, close or tight, clay infilled, iron stained or quartz infilled.							
9			100 (0)									
10			100 (10)									

REMARKS *Point load failed along existing defects

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BOREHOLE No BH C03

SHEET 2 of 2

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PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C

LOCATION Cut 1 COORDINATES 473312.3 E; 7087535.8 N

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JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 05/09/11 DRILLER Cairns Drilling Contract

DEPTH (m)	R.L. (m)	AUGER Casing Washing Core Drilling	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	74.70												
			CORE REC %										
			100		METASILTSTONE (MW): (Cont'd)							J, 80°, Pl, T, Clnf, FeSt Is(50) = 1.15MPa Is(50) = 2.33MPa	x o
			(19)										
11													
12			100									J, Subvertical, T, Clnf, FeSt CLy BZ	
			(0)										
13			100									BZ	
			(10)									BZ	
14												Clay Seam	
												J, 50°, Pl, Clnf, FeSt Is(50) = 4.06MPa Is(50) = 2.66MPa	x o
	70.02		100		Borehole terminated at 14.68m								
15													
16													
17													
18													
19													
20													

REMARKS *Point load failed along existing defects

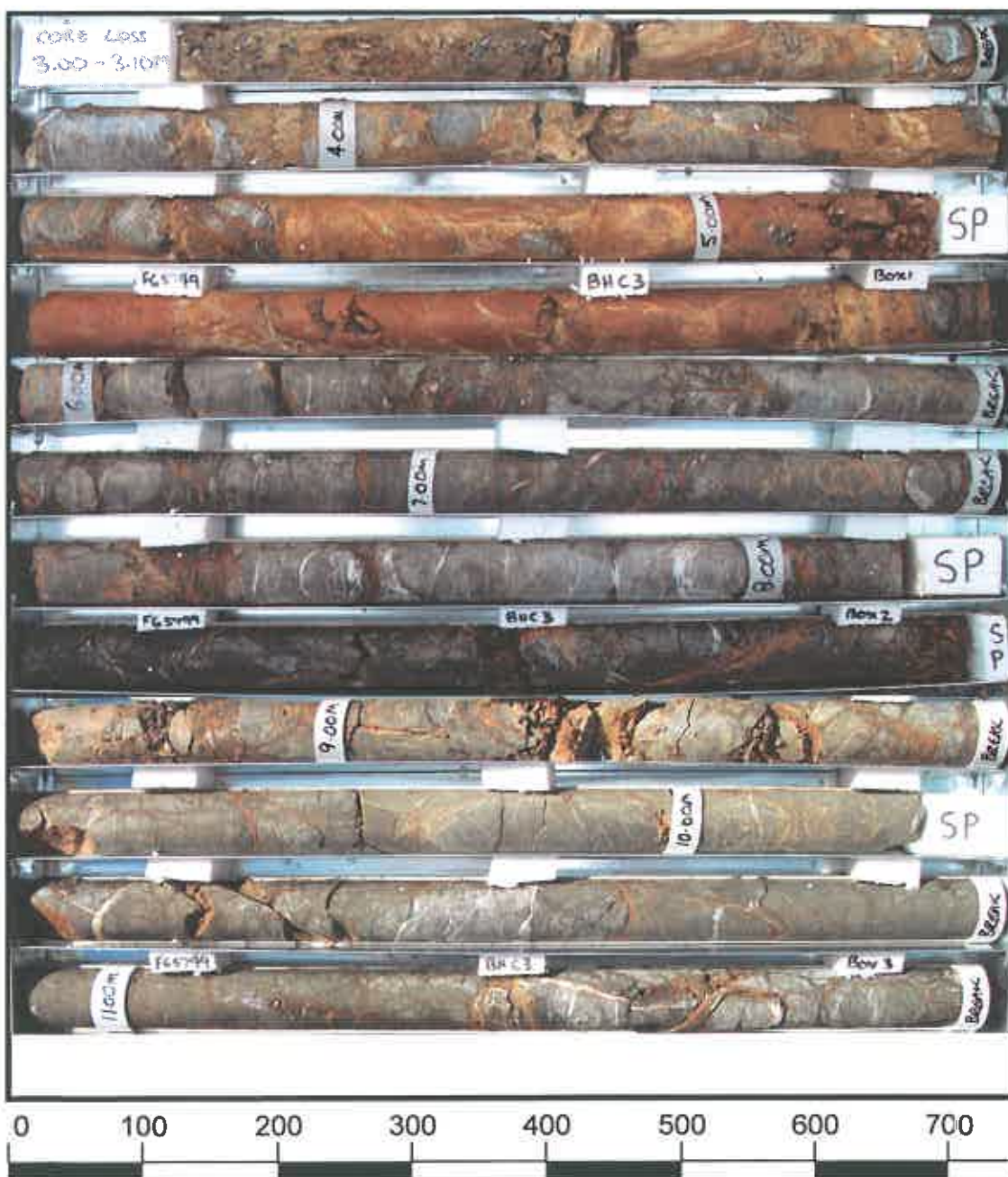
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QLD_DMR_LIB_01A_GLB_Log_A_ENGINEERING_BOREHOLE_LOG_W/LITHOLOGY_FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG46953.GDW - Dated CPT Tool Print Add-in 12/12/2011 16:28



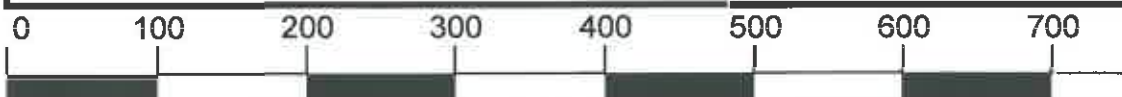
CORE PHOTO LOG - BH C3

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	06/09/2011
Details:	Cut 1	Start Depth (m):	3.00
Reference No.:	H11102	Finish Depth (m):	14.68



CORE PHOTO LOG - BH C3

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	06/09/2011
Details:	Cut 1	Start Depth (m):	3.00
Reference No.:	H11102	Finish Depth (m):	14.68



SCALE 1:5