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# ENGINEERING BOREHOLE LOG

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

ATION	<u>Cut 7 </u>						COORDINATES 472498.5 E; 7092563.0 N			
				SURFACE R.L. <u>93</u> .40m. PLUNGE _						_===
No	232/	10 <u>A/2</u> _		HEIGHT DATUM _AHD BEARING _			DATE COMPLETED	02/08	3/11 DRILLER <u>Cairns Drillin</u>	ng Cont
R.L. (m)	SER SING SH BORING RE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	C ATHERING	INTACT DEFECT STRENGTH SPACING (mm)	HIC LO	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES
93.40	ĕĕŞō	REC %	SAI		=	NE VE	#¥±≥¬≼¶ 88888	R.	TEOTINGOUTS	SAS
93.10 92.70				Gravelly Silty SAND (Residual): Brown/grey, very dense.		(SM)	‡			
			-A	SANDSTONE (HW): Pale grey.		нw			30/100mn N>5i — Based on driller's logs only	
91.40			В	SILTSTONE (HW): Brown/grey, fine grained, massive, mainly			+ + + + + + + + + + + + + + + + + + + +		30/80mn N>5/	
		(33)		extremely low to very low strength.  Defects: -Frequent clay seamsJoint at 40° (2-3/m)  Defect spacing is generally extremely	X 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				Is(50) = 0.17MPa Is(50) = 0.17MPa Is(50) = 0.17MPa In Clay Seam In Clay Seam	а
		100		close. Defect surfaces are planar, closed or tight, smooth, thickly clay infilled.	X				Is(50) = 1.63MPa Clay Seam Is(50) = 1.49MPa Clay Seam Is(50) = 1.49MPa	
		100			X > X > X > X > X > X > X > X > X > X >	нw			Clayey Zone  Clayey Zone	
		(13)				4			□ Clay Seam □ Clay Seam	
		100			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				Is(50) = 0.03MPa Is(50) = 0.31MPa	
		(7)			X X X X X X X X X X X X X X X X X X X				Is(50) = 0.45MPa Clay Seam Clay Seam	а
				Indistinct houndary	X X					
84.90		(9)		Indistinct boundary  ANDESITE (HW): Brown, fine grained, massive, very low to low strength.  Defects:  -Joint at 20° (3/m)  -Joint at 70° (2-3/m)  -Joint at 80° (<1/m)  Defect spacing is mainly close. Defect surfaces are planar, tight or closed, slightly rough, clay infilled, iron stained.		HW				



# ENGINEERING BOREHOLE LOG

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

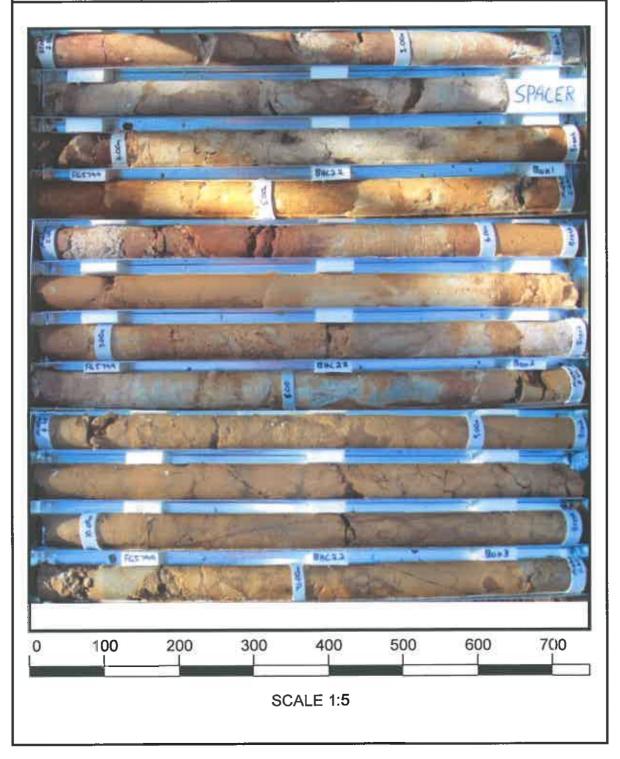
PROJE	СТ	_Bruç	e <u>Highw</u>	ay L	pgrade (Cooroy to Curra) Section C							
LOCATI					CURRACE D.L. 02.40m DILLINGE	- 12.		DATES			OORDINATES <u>472498.5 E; 7092563.</u> <u>8/11</u> GRID DATUM <u>MGA94</u>	<u> </u>
JOB No					SURFACE R.L. 93.40m PLUNGE HEIGHT DATUM _AHD BEARING							Contrac
	<u> </u>	AUGER CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	_		INTACT STRENGTH 番手ェミュラロ	DEFECT	I	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES
- 11 	82.09		(29) 100 (19)		SANDSTONE (MW): Grey/brown, fine grained, massive, medium to high strength, indurated and/or slightly metamorphosed.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	HW				Is(50) = 0.10MPa Is(50) = 0.19MPa Is(50) = 0.19MPa	x
13			100 (33)		Defects: -Broken zones up to 300mmJoint at 10° (2/m) -Joint at 50° (3/m)  Defect spacing is close to medium. Defect surfaces are planar, tight, slightly rough, clay infilled, iron stained.		MVV				— J, 60°, PI, CInf, 20mm  — J, 60°, PI, O, SR, CInf, FeSt  Is(50) = 0.47MPa  — J, 60°, PI, O, SR, Cinf FeSt  — J, 60°, PI, T, Cinf, 10mm  DD = 2.51t/m³; MC = 1.7%;  UCS=10.7MPa  — J, 70°, PI, O, Cinf, 20mm  — J, 40°, PI, O, R, Cinf, FeSt  Partial water loss at 14.5m	L
15	77.90		100		Borehole terminated at 15.5m						Is(50) = 3.79MPa Is(50) = 2.77MPa — J, 60°, Pi, T, Cinf, FeSt	x 0
12 12 13 14 15 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17					borenole terminated at 15.5m		ļ					
	MARK	s							‡ 		LOGGED BY JA/DC	

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



# CORE PHOTO LOG - BH C22

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C						
Project No.:	FG5799	Date:	06/09/2011				
Details:	Cut 7	Start Depth (m):	2.50				
Reference No.:	H11115	Finish Depth (m):	15.50				





### CORE PHOTO LOG = BH C22

	CORE PHOTO L	00-011022							
Project Name: BRUCE HIGHWAY UPGRADE - SECTION C									
Project No.:	FG5799	Date:	06/09/2011						
Details:	Cut 7	Start Depth (m):	2.50						
Reference No.:	H11115	Finish Depth (m):	15.50						
		Spacer	ECHISSON.						
0 100	200 300 4 SCALE		00 700						