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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C25
 SHEET 1 of 2
 REFERENCE No H11225

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
 LOCATION Cut 8 COORDINATES 472235.5 E; 7093429.0 N
 PROJECT No FG5799 SURFACE R.L. 85.60m PLUNGE _____ DATE STARTED 24/07/11 GRID DATUM MGA94
 JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 24/07/11 DRILLER Cairns Drilling Contract

DEPTH (m)	R.L. (m)	USER CUSHING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	85.60					TOPSOIL							
	85.40					Gravelly Sandy CLAY (Residual):	(CL)					Based on Driller's logs only	
	85.10					PHYLLITE (HW): Generally exhibits the engineering properties of red/brown, moist, hard, gravelly clay.	HW					11,30/100 N>50	SPT
1	84.10		(0)		A	PHYLLITE (SHEAR ZONE) (HW): Brown to grey, fine grained, foliated and sheared, mainly low strength.	HW					Is(50) = 0.10MPa	x
2			(0)	100		Defects: -Heavily sheared throughout -Clay seams up to 600mm -Foliation dipping at 40°	HW						
3			(0)			Defect surfaces are mainly closed, irregular, smooth, clay infilled.	HW						
4			(0)				HW						
5	81.15		(0)	100		PHYLLITE (SHEAR ZONE) (MW): Brown to grey, fine grained, foliated and sheared, mainly low to medium strength.	MW						
6			(0)	100	(17)	Defects: -Sheared throughout -Foliation partings at 50°-60° (~10/m)	MW						
7			(0)	100		Defect spacing is mainly close. Defect surfaces are irregular, closed, smooth, clay infilled.	MW					Is(50) = 0.22MPa Is(50) = 1.01MPa	x o
8			(0)	100			MW					Is(50) = 0.28MPa	x
9			(0)	100			MW						
10			(0)	100			MW					Is(50) = 0.27MPa	x

OLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG#46352.GDW Date: 12/12/2011 16:28

REMARKS _____

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ENGINEERING BOREHOLE LOG

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SYMBOLS REFER FORM F:GEOT 017/6-2010

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SHEET 2 of 2
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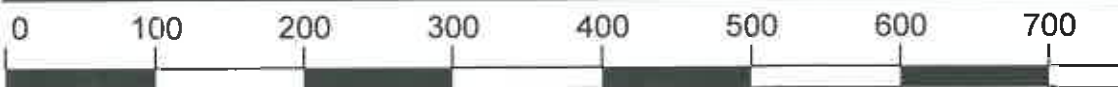
DEPTH (m)	R.L. (m)	AUGER CASING BORING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	LSC	WEATHERING	INTACT STRENGTH						DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
										EH	VH	H	W	J	V					EL
10	75.60					PHYLLITE (MW):Cont'd														
	75.25		100	(0)		PHYLLITE (HW): Dark grey, fine grained, foliated and sheared, very low strength. Defects: -Clayey and sheared throughout. Defect surfaces are very closely spaced.													Is(50) = 0.02MPa Is(60) = 0.40MPa	x o
11																				
12	73.19		100	(16)																
13	72.58					ANDESITE (SW): Pale grey, fine grained, massive, high strength. Defects: -Joint at 10°-20° (2/m) -Joint at 70° (2/m) Defect spacing is medium.													Contact, 35° J, 70°, P, S, T, Clnf J, 70°, P, S, O, Cn J, 20°, Ir, R, Cn	
	72.15		100			Defect surfaces are generally planar, open or tight, smooth, clean.													Contact, 50°	
14						PHYLLITE (SHEARED ZONE) (HW): As above.														
						Borehole terminated at 13.45m														
15																				
16																				
17																				
18																				
19																				
20																				

REMARKS _____

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CORE PHOTO LOG - BH C25

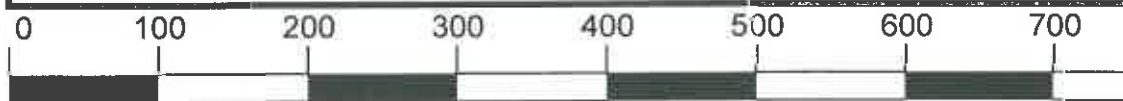
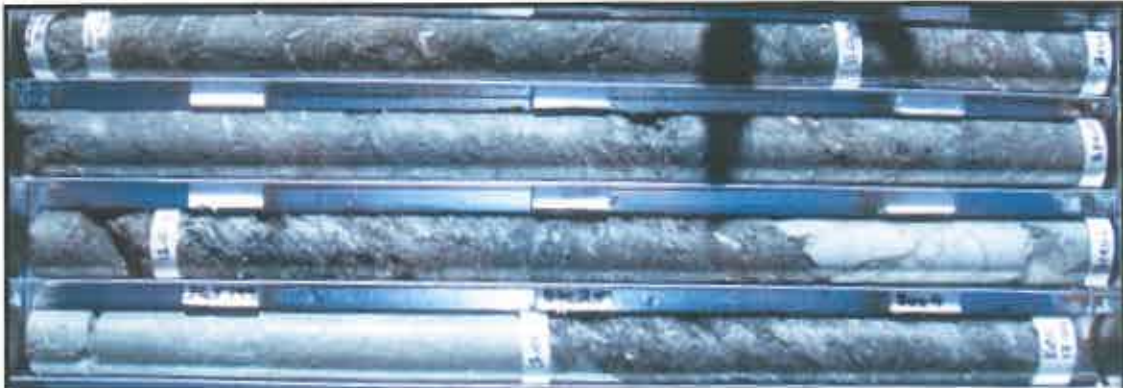
Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	24/07/2011
Details:	Cut 8	Start Depth (m):	1.50
Reference No.:	H11047	Finish Depth (m):	13.45



SCALE 1:5

CORE PHOTO LOG - BH C25

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	24/07/2011
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Reference No.:	H11047	Finish Depth (m):	13.45



SCALE 1:5