ENGINEERING BOREHOLE LOG

Queensland Government

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

BOREHOLE No BH C05
SHEET 1 of 1
REFERENCE No H11198

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 2 COORDINATES 473324.5 E; 7088431.7 N
PROJECT No FG5799 SURFACE R.L. 84.20m PLUNGE DATE STARTED 07/09/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 07/09/11 DRILLER Cairns Drilling Contract

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	84.20													
	84.05				**TOPSOIL:** Brown, moist, clayey silt.		(ML)							
					Gravelly Silty CLAY (Residual): Mottled orange/brown, moist. Gravel portion is less than 4.75mm.		(CI)					Based on driller's logs only		
	83.30													
1				A	**METASILTSTONE (XW):** Generally exhibits engineering properties of a brown/grey, moist, fine grained, hard, low plasticity clayey gravel.		XW					7,11,23 N=34		SPT
2	82.10				**METASILTSTONE (HW):** As above.		HW					30/100 N>50		SPT
	81.20			B										
3			(0)		**METASILTSTONE (SHEAR ZONE) (HW):** Grey, fine grained, sheared throughout, very low to low strength. Defects: -Clay seams up to 50mm -Broken and sheared throughout Defect spacing is generally very close. Defect surfaces are irregular, closed or tight, clay infilled, occasional quartz veining.		HW					Clay Seam Clay Seam QZ vein Clay Seam		
4			100 (9)									Clay Seam Clay Seam		
	79.80				**BASALT (MW):** Dark brown, fine grained, massive, high to very high strength. Defects: -Joint at 65° (1/m) -Silicious infill in fractures Defect spacing is medium. Defect surfaces are closed and quartz infilled.		MW					J, 60°, Pl, C, QZ	Is(50) = 3.14MPa	x
5	79.04											Clay Seam Clay Seam, 20°		
6			100 (0)		**METASILTSTONE (SHEAR ZONE) (HW):** Grey, fine grained, generally low to medium strength. -Clay seams up to 50mm -Broken and sheared throughout Defect spacing is very close. Defect surfaces are irregular, closed or tight, clay infilled, occasional quartz veining.		HW					Clay Seam, 20° Clayey Seam Dyke? dark grey		
7	76.70		100									Is(50) = 0.31MPa Is(50) = 0.24MPa	x o	
					Borehole terminated at 7.5m									
8														
9														
10														

REMARKS

LOGGED BY JA/DC

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 16:28

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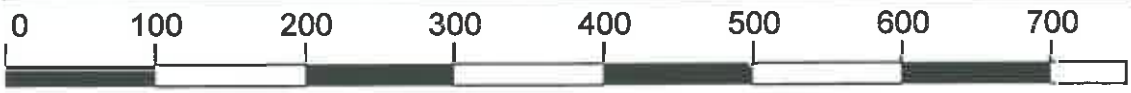
Queensland Government

CORE PHOTO LOG - BH C5

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	20/09/2011
Details:	Cut 2	Start Depth (m):	3.00
Reference No.:	H11198	Finish Depth (m):	7.50



SCALE 1:5