ENGINEERING BOREHOLE LOG

Queensland Government

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

BOREHOLE No BH C61
SHEET 1 of 2
REFERENCE No H11143

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 16 COORDINATES 470403.4 E; 7097742.7 N
PROJECT No FG5799 SURFACE R.L. 69.40m PLUNGE DATE STARTED 15/08/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 15/08/11 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	69.40													
	69.20				**TOPSOIL:** Pale grey, dry, silt.		(ML)							
1				A	**SILTSTONE (XW):** Generally exhibits engineering properties of a brown/grey, fine grained, dry, very dense, silty gravel.		XW					Based on driller's logs only 12,30,30/100 N>50		SPT
	67.50													
2			(31)		**SANDSTONE (MW):** Grey/brown, fine to medium grained, bedded, generally medium to mainly high strength, indurated and/or slightly metamorphosed. Contains prominent thin siltstone interbeds throughout. Bedding dips at 40°.							J, Subvertical, I, T, R, Clnf		
			100									Is(50) = 0.31MPa Is(50) = 1.42MPa	x o	
3			(27)									J, Subvertical, I, T BP, 40°, Pl, T, SR J, 30°, Pl, T, Clnf		
												Is(50) = 1.61MPa Is(50) = 1.93MPa	x o	
4			100									J, 70°, Pl, T, Clnf		
			(0)		Defects: -Bedding parting at 40° (~8/m) -Joint at 30° (<1/m) -Joint at 45° (1-2/m) -Joint at 70° (<1/m) -Joint at subvertical (1/m)							J, Subvertical, I, T, Clnf J, 50°, Pl, T BP, 40°, O, SR, Cn		
5					Defect spacing is close to medium. Defect surfaces are planar, tight, slightly rough, clay infilled, iron stained.									
			100											
6			(41)				MW					Is(50) = 1.06MPa Is(50) = 4.56MPa	x o	
												BZ Clay Seam		
7			100											
			(45)									DD = 2.58t/m^3; MC = 1.1%; UCS=10.25MPa		UCS
8														
			100											
9			(17)									CLy Zone J, 70°, Pl, T, Clnf BP, 40°, Pl, O, R, Clnf, FeSt Is(50) = 0.66MPa Is(50) = 1.38MPa	x o	
												Sandy Clay Zone		
10														

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

REMARKS *Point load failed along existing defect

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10	59.40		100 (0)		**SANDSTONE (MW):** Cont'd							J, Subvertical, I, C, CInf, FeSt		
												J, 70°, Pl, C, FeSt		
11					11.0m-11.6m: Becomming coarse grained conglomerate.							Is(50) = 0.08MPa; *		x
												Is(50) = 0.76MPa		o
			100 (9)				MW					BZ		
12												Is(50) = 0.84MPa		x
												Is(50) = 0.49MPa		o
13	56.25		100									BZ		
												J, Subvertical, I, C		
					Borehole terminated at 13.15m									
14														
15														
16														
17														
18														
19														
20														

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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 C61

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 16	Start Depth (m):	1.90
Reference No.:	H11143	Finish Depth (m):	13.15

SCALE 1:5

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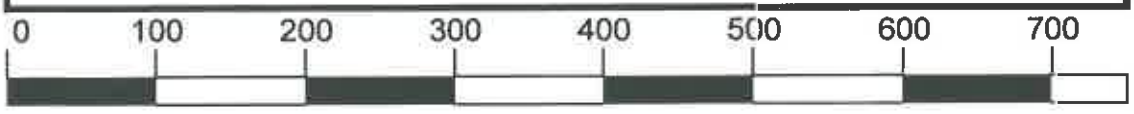

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