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ENGINEERING BOREHOLE LOG

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 (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	69.40											
0	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	
2	67.50		(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°.							
3			100								J, Subvertical, I, T, R, Clnf	
3			(27)								Is(50) = 0.31MPa Is(50) = 1.42MPa	x o
4					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 BP, 40°, Pl, T, SR J, 30°, Pl, T, Clnf	
4			100								Is(50) = 1.61MPa Is(50) = 1.93MPa	x o
4			(0)		Defect spacing is close to medium. Defect surfaces are planar, tight, slightly rough, clay infilled, iron stained.						J, 70°, Pl, T, Clnf	
5											J, Subvertical, I, T, Clnf J, 50°, Pl, T BP, 40°, O, SR, Cn	
6			100			MW					Is(50) = 1.06MPa Is(50) = 4.56MPa	x o
6			(41)								BZ Clay Seam	
7											DD = 2.58t/m ³ ; MC = 1.1%; UCS=10.25MPa	UCS
7			100									
7			(45)									
8												
8												
9			100								Clay Zone J, 70°, Pl, T, Clnf BP, 40°, Pl, O, R, Clnf, FeSt	x o
9			(17)								Sandy Clay Zone	
10												

REMARKS *Point load failed along existing defect

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C61
SHEET 2 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 MG94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 15/08/11 DRILLER Drillsure Pty Ltd

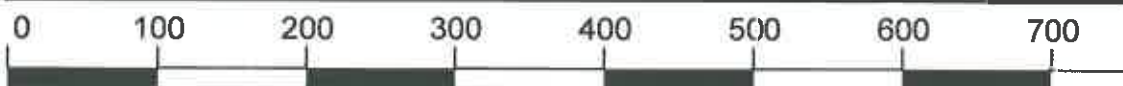
DEPTH (m)	R.L. (m)	AUGER WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	59.40												
			100 (0)		SANDSTONE (MW): Cont'd							J, Subvertical, I, C, Clnt, FeSt	
11					11.0m-11.6m: Becomming coarse grained conglomerate.							J, 70°, Pl, C, FeSt Is(50) = 0.08MPa; * Is(50) = 0.76MPa	x o
12			100 (9)					MW				BZ Is(50) = 0.84MPa Is(50) = 0.49MPa	x o
13	56.25		100		Borehole terminated at 13.15m							BZ J, Subvertical, I, C	
14													
15													
16													
17													
18													
19													
20													

REMARKS *Point load failed along existing defect.

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CORE PHOTO LOG - BH C61

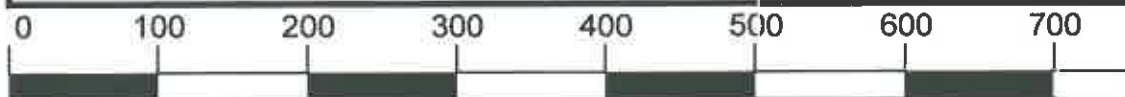
Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 16	Start Depth (m):	1.90
Reference No.:	H11143	Finish Depth (m):	13.15



SCALE 1:5

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