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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C63
SHEET 1 of 2
REFERENCE No H11200

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Embankment 1/Traveston Creek Bridge Abut A COORDINATES 473365.2 E; 7087925.6 N
PROJECT No FG5799 SURFACE R.L. 66.10m PLUNGE _____ DATE STARTED 01/09/11 GRID DATUM MG94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 02/09/11 DRILLER Cairns Drilling Contract

DEPTH (m)	R.L. (m)	ALCER 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	66.10											
0.66.00					TOPSOIL: Brown, moist, silty clay. Silty CLAY (Alluvium): Grey/brown, moist, very stiff to hard. Intermediate to high plasticity.	(CL)					Based on driller's logs only	
1				A							5,10,15 N=25	SPT
2				B							5,7,10 N=17	SPT
3				C	3.0m-3.45m: Iron nodules.	(CL-CH)					5,8,11 N=19	SPT
4				D							6,14,19 N=33	SPT
5				E							5,11,15 N=26	SPT
6	60.10			F	Gravelly Silty CLAY (Alluvium?): Grey/brown, moist, very stiff, low to intermediate plasticity. Gravel fraction is angular/subangular sizing up to 25mm.	(CL-CI)					11,11,9 N=20	SPT
7	59.10			G	METASILTSTONE (XW): Generally exhibits engineering properties of a grey/brown, moist, dense to very dense, clayey gravel.	XW					11,14,18 N=32	SPT
8				H							13,8,30/80 N>50	SPT
9	57.60		(32)		METASILTSTONE (SW): Grey, fine grained, subtly foliated, high to very high strength.	SW					Is(50) = 4.12MPa	L
10			100 (33)		(See over)						J, 50°, PI, O, R, Cn J, 70°, PI, O, S, FeSt CLy BZ	

REMARKS _____

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No **BH C63**

SHEET **2** of **2**

REFERENCE No **H11200**

PROJECT **Bruce Highway Upgrade (Cooroy to Curra) Section C**

LOCATION **Embankment 1/Traveston Creek Bridge Abut A**

COORDINATES **473365.2 E; 7087925.6 N**

PROJECT No **FG5799** SURFACE R.L. **66.10m** PLUNGE **---** DATE STARTED **01/09/11** GRID DATUM **MGA84**

JOB No **232/10A/2** HEIGHT DATUM **AHD** BEARING **---** DATE COMPLETED **02/09/11** DRILLER **Cairns Drilling Contract**

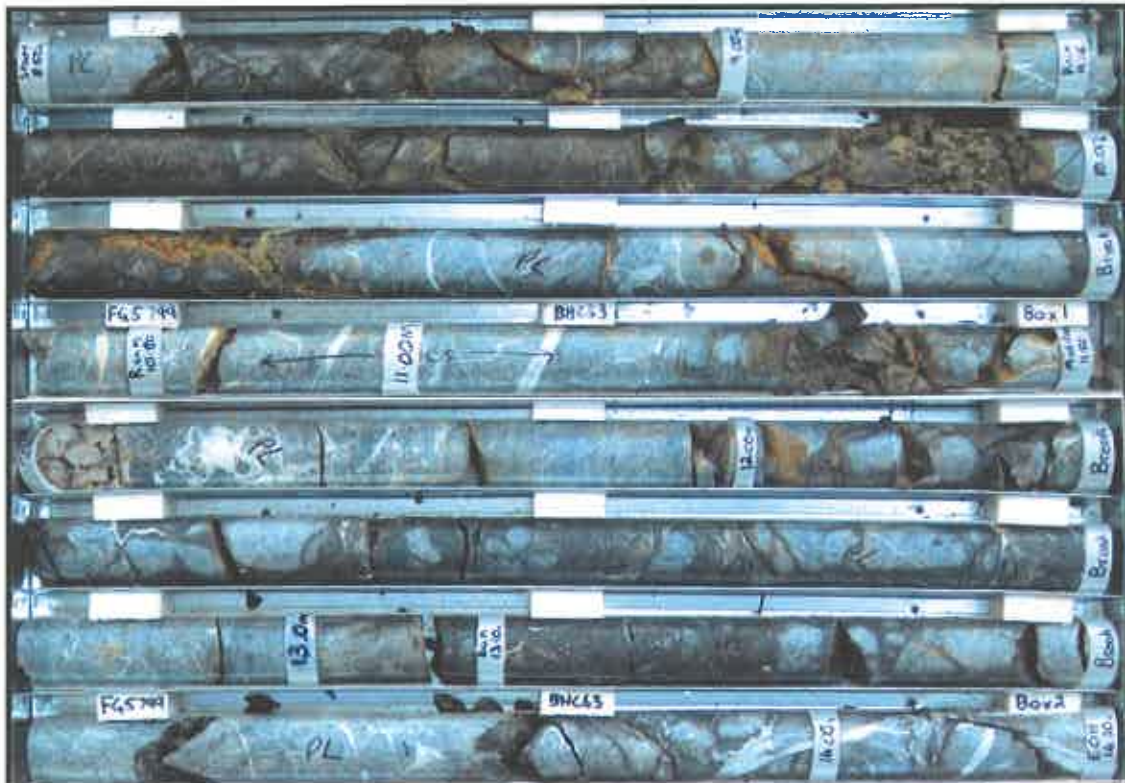
DEPTH (m)	R.L. (m)	AUGER WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
10	56.10														
11			100 (53)			METASILTSTONE (SW): Cont'd Defects: -Quartz veining throughout. -Joint at 20° (3/m) -Joint at 40° (2/m) -Joint at 70° (1/m) Defect spacing is generally medium. Defect surfaces are planar, open or closed, slightly rough, iron stained, clay infilled or quartz infilled.	SW						J, 80°, Pl, O, R, Clnf J, 10°, Pl, T, SR, QZ Is(50) = 3.79MPa J, 70°, I, FeSt Is(50) = 6.81MPa DD = 2.66t/m ³ ; MC = 0.5%; UCS=55.4MPa BZ J, 20°, Pl, O, S, Cn Is(50) = 1.75MPa J, 20°, Pl, O, S, FeSt Is(50) = 4.67MPa BZ J, 30°, Pl, O, S, FeSt J, 40°, Pl, T, S, FeSt J, 10°, Pl, O, S, Cn Is(50) = 1.96MPa Is(50) = 2.06MPa Is(50) = 1.51MPa J, 30°, Pl, O, R, Cn Is(50) = 0.28MPa J, 40°, Pl, O, R, Cn Is(50) = 1.40MPa J, 50°, T, Cn J, 70°, Pl, T, S, Clnf	o x	UCS
12														x	
13			100 (49)											o	
14	51.90		100											x	
15						Borehole terminated at 14.2m									
16															
17															
18															
19															
20															

REMARKS

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CORE PHOTO LOG - BH C63

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	14/10/2011
Details:	Embankment	Start Depth (m):	8.50
Reference No.:	H11200	Finish Depth (m):	14.20



SCALE 1:5