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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C28
SHEET 1 of 2
REFERENCE No H11049

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 8 COORDINATES 472164.6 E; 7093564.1 N
PROJECT No FG5799 SURFACE R.L. 89.00m PLUNGE _____ DATE STARTED 11/07/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 11/07/11 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	89.00											
0.88	88.80				TOPSOIL: Grey.							
					SANDSTONE (HW): Grey/brown, fine grained.						Based on Driller's logs only	
1				A		HW					27,30/100mm N>50	SPT
2	87.00		(10)		SANDSTONE (HW): Grey mottled with red/brown, fine grained, massive, low strength.						J, 10°, Ir, SR, T, Clnf J, 65-70°, C, Clnf J, 65-70°, C, Clnf	
3					Defects: - Joint at 5° (3/m) - Joint at 60-65° (3/m)	HW					J, 10°, Ir, SR, T, Clnf	
4			100 (19)		Defect spacing is close to medium. Defect surfaces irregular or planar, tight or closed, slightly rough, clay infilled.						MW Siltstone	
5	84.75		100 (30)		SANDSTONE (MW): Brown to grey, fine grained, massive, medium to high strength, indurated and/or slightly metamorphosed.						DD = 2.18t/m³; WD = 2.34t/m³; MC = 7%; UCS=3.4MPa	UCS
6			100 (44)		Defects: - Broken QZ veins throughout - Joint at 10° (1/m) - Joint at 35° (1/m) - Joint at 55° (4/m) - Joint at 80-85° (1-2/m)						J, 50°, C, QZ infill	Is(50) = 0.66MPa Is(50) = 0.38MPa
7			100 (63)		Defects are very close to closely spaced. Defect surfaces are planar or irregular, closed or tight, iron stained, clay infilled, quartz infilled.						J, 50-55°, C, Clnf Conglomerate J, 50-55°, C, Clnf	
8					Pebbles sizing up to 15mm throughout.	MW					J, 50-55°, C, Clnf	
9			100 (0)								QZ VN, 60° Conglomerate interbed	Is(50) = 0.40MPa Is(50) = 0.42MPa
10											J, 50°, Ir, T, Clnf, FeSt	
											J, 80°, T, Clnf J, 80°, C, Clnf	

REMARKS _____

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C28
SHEET 2 of 2
REFERENCE No H11049

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 8 COORDINATES 472164.6 E; 7093564.1 N
PROJECT No FG5799 SURFACE R.L. 89.00m PLUNGE _____ DATE STARTED 11/07/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 11/07/11 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	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	79.00					SANDSTONE (MW): Cont'd						QZ VN Is(50) = 0.71MPa Is(50) = 1.05MPa	x o
11												QZ VN	
12												J, 70°, C, QZ infill	
13												Is(50) = 1.58MPa Is(50) = 1.46MPa DD = 2.42t/m ³ ; WD = 2.46t/m ³ ; MC = 1.4%; UCS=14.7MPa	x o
14												CLy band, 40° Siltstone Interbed	
15												J, 55°, Pl, C, Clnf J, 55°, Pl, C, Clnf Siltstone Interbed	
16	72.90											J, 80°, C, QZ infill J, 55°, Un, T, Clnf, FeSt	
17												J, 10°, Ir, SR, T Conglomerate	
18												J, 55°, Ir, SR, O, Clnf, FeSt	
19												Is(50) = 2.17MPa Is(50) = 1.83MPa	x o
20												J, 60°, Pl, C, QZ infill J, 45°, C, QZ infill QZ VN, 45°	
Borehole terminated at 16.1m													

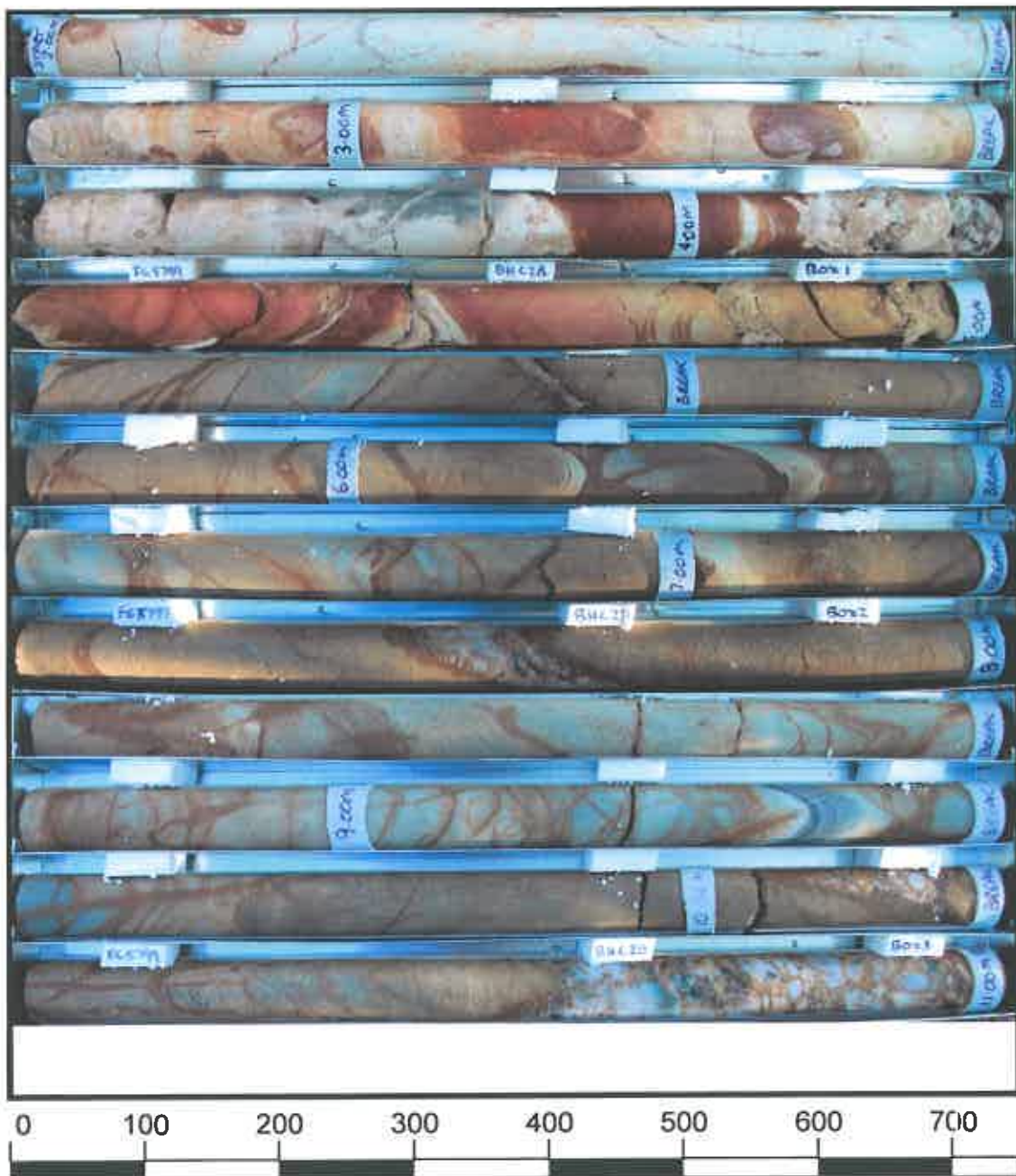
REMARKS _____

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CORE PHOTO LOG - BH C28

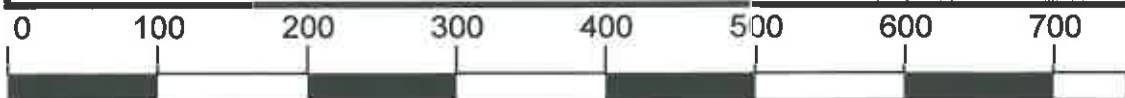
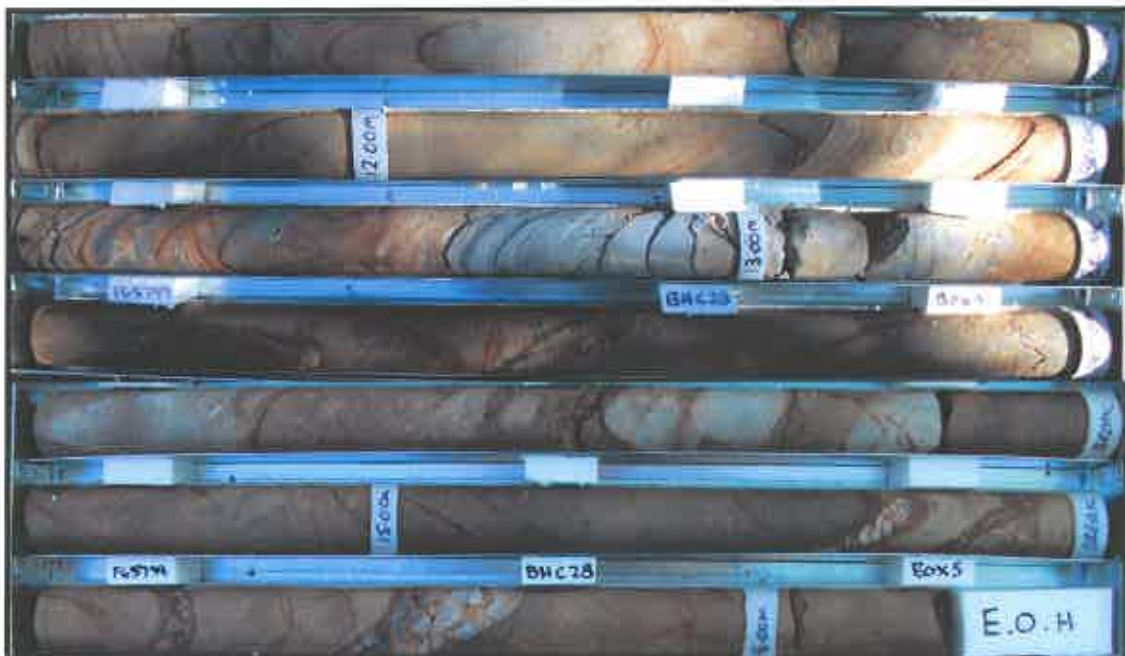
Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	06/09/2011
Detail:	Cut 8	Start Depth (m):	2.00
Reference No.:	H11049	Finish Depth (m):	16.10



SCALE 1:5

CORE PHOTO LOG - BH C28

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	06/09/2011
Details:	Cut 8	Start Depth (m):	2.00
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SCALE 1:5