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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C60

SHEET 1 of 3

REFERENCE No H11142

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C

LOCATION Cut 16

COORDINATES 470527.1 E; 7097567.0 N

PROJECT No FG5799

SURFACE R.L. 83.30m

PLUNGE

DATE STARTED 19/08/11

GRID DATUM MGA94

JOB No 232/10A/2

HEIGHT DATUM AHD

BEARING

DATE COMPLETED 19/08/11

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	83.30											
0.05	83.05				TOPSOIL: Grey, dry, clayey silt. Gravel fragments <50mm	(ML)						
1.0				A	SILTSTONE (HW): Brown/grey, fine grained, subtly foliated.	HW					Based on driller's logs only	
1.60	81.60										28,30/80 N>50	SPT
2.0			(0)		SILTSTONE (MW): Grey/brown, fine grained, subtly foliated, medium to high strength, indurated and/or slightly metamorphosed.							
2.29			100 (29)		Defects: -Foliation parting at 40° (4/m) -Joint at 30° (<1/m) -Joint at 60°-70° (<1/m)							
3.0					Defect spacing is generally medium. Defect surfaces are planar, tight, smooth, thinly clay infilled, iron stained.							
4.0			100 (56)									
5.0												
6.0			100 (75)									
7.0			100 (44)									
8.0			100 (92)									
9.0												
10.0			100									

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 C60
SHEET 2 of 3
REFERENCE No H11142

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 16 COORDINATES 470527.1 E; 7097567.0 N
PROJECT No FG5799 SURFACE R.L. 83.30m PLUNGE _____ DATE STARTED 19/08/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 19/08/11 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	
								EH	VH	H	M	J	L							EL
10	73.30				SILTSTONE (MW): Cont'd	XXXXXX	MW									Clayey Zone				
			(30)															J, 70°, Pl, T, S, Clnf		
11	72.13				SILTSTONE (SW): Grey, fine grained, subtly foliated, high strength, indurated and/or slightly metamorphosed.	XXXXXX	SW									FP, 40°, Pl, O, Clnf, 5mm				
			100 (95)		Defects: -Foliation parting at 40° (3-4/m) -Joint at 50° (<1/m) -Joint at 70° (<1/m)													FP, 40°, Pl, O, Clnf, 5mm		
12					Defect spacing is generally medium. Defect surfaces are planar, tight or open, smooth, thinly clay infilled, iron stained.	XXXXXX											Is(50) = 2.36MPa Is(50) = 1.41MPa	x		
			100 (75)																	
13						XXXXXX											Is(50) = 2.11MPa	x		
			100 (57)														J, 60°, Pl, T, Clnf, FeSt J, 40°, Pl, C, QZ FP, 40°, Pl, T, S, Clnf, FeSt FP, 40°, Pl, T, S, Clnf, FeSt			
14						XXXXXX											J, 70°, Pl, T, Clnf			
			100 (63)																	
15						XXXXXX											Is(50) = 3.41MPa	x		
			100 (50)														16.75-20.5: Water loss BZ HFZ			
16						XXXXXX											FP, 40°, Pl, T, S J, 50°, Pl, T			
			100 (69)														Clayey Zone, 40°		Is(50) = 0.94MPa Is(50) = 1.14MPa	x
17					19.65-20.5: Becoming conglomeritic in parts with subrounded clasts sizing up to 20mm.	XXXXXX										J, 70°, Pl, T, SR, Cn				
																			Is(50) = 2.06MPa Is(50) = 0.60MPa *	x
18						XXXXXX														
19						XXXXXX														
20						XXXXXX														

REMARKS *Point load failed along existing defect

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ENGINEERING BOREHOLE LOG

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BOREHOLE No BH C60
SHEET 3 of 3
REFERENCE No H11142

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 16 COORDINATES 470527.1 E; 7097567.0 N
PROJECT No FG5799 SURFACE R.L. 83.30m PLUNGE _____ DATE STARTED 19/08/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 19/08/11 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	ADGER 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
20	63.30					SILTSTONE (SW): Cont'd	XXXXX	SW				J, 50°, Pl, T, SR, Clnf, FeSt J, 40°, Pl, T	
	62.80		100			Borehole terminated at 20.5m							
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

REMARKS *Point load failed along existing defect

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CORE PHOTO LOG - BH C60

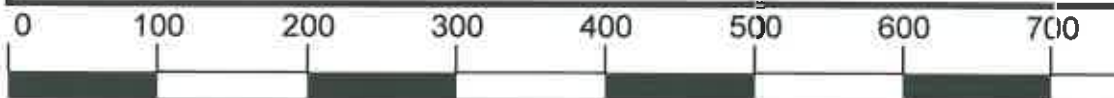
Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 16	Start Depth (m):	1.70
Reference No.:	H11142	Finish Depth (m):	20.50



SCALE 1:5

CORE PHOTO LOG - BH C60

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 16	Start Depth (m):	1.70
Reference No.:	H11142	Finish Depth (m):	20.50

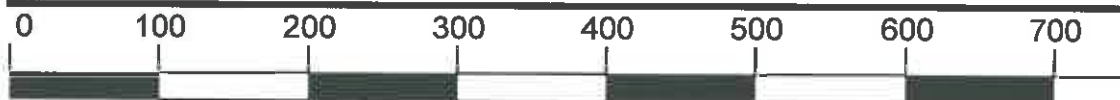


SCALE 1:5



CORE PHOTO LOG - BH C60

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 16	Start Depth (m):	1.70
Reference No.:	H11142	Finish Depth (m):	20.50



SCALE 1:5