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ENGINEERING BOREHOLE LOG

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

PRO	JECT	Bruc	<u>e Highy</u>	<u>way</u> l	Upgrade (Cooroy to Curra) Section C			=				~~~~~~	
		_Cut	_						7.1			171822. <u>0</u> E; 7094449	. <u>8 N</u> _
					SURFACE R.L82.80m PLUNGE _							TUM MGA94	
JOB		_232/	108/2		HEIGHT DATUM AHD BEARING				'IPLETED	20/07	<u>711.</u> DRII	LLER <u>Drillsure Pty</u>	<u>Lta</u>
_e	R.L. (m)	92	RQD ()%				l	INTACT STRENGTH	DEFECT SPACING	ဖြ	ADDITIO	ONAL DATA	
DEPTH (m)	R.L. (m)	BORI		ш	MATERIAL	790	THERING		(mm)	GRAPHIC LOG	,	AND	Si
DEP		ASINC ASINC ASH	CORE	SAMPLE	DESCRIPTION	ПТНОСОБУ	SC	ᇁᆃᆂᅗᄀᆿᆿ	88888	RAPH	TEST	RESULTS	SAMPLES
-	82.80	₹0 ≶0	REC %	S	TOPSOIL: Dark brown.	31 lg.	⊃ ≤ :	-	-	9			S F
F F	82.50				Silty CLAY (Residual):					 			-
E					Brown, moist, stiff to very stiff, intermediate to high plasticity.								
ŧ, l					Becomes gravelly at ~0.92m. Traces of organics.]	Ė				
				A	Traces of organics.			-	-			8,11,13	
-				-			(CI- CH)					N=24	
F													
2								-					
	00.00												
	80.30	Щ.		В	SILISIONE (HW):	× × ×	HW					30/80 N>50	CDI
- A	79.90	4	(O)		Brown, fine grained. SILTSTONE (HW):	X >			<u> </u>		□⊢XW Clay Seam		
			(0)		Brown, fine grained, subtly foliated,	×××							
					generally medium strength.	××	3				□-XW Clay Seam		
- dag					Defects: -Joint at 25°-30° (3/m)	x x							
4			100		-Joint at 40° (4/m) -Joint at 70° (<1/m)	X X					- CL., D7	Is(50) = 0.82MPa Is(50) = 0.63MPa	X O
- 465		ľ	(0)		Defects are generally closely spaced.	× × × × × × × × × × × × × × × × × × ×	нw		1		⊐– CLy BZ		
<u> </u>					Defect surfaces are planar, tight or open, smooth, clean or clay infilled.	X X							
2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			100			× × × × × × × × ×							
5	İ		(0)			X X							
	77.20		100			X X			<u> </u>		⊐– XW Clay Seam		
	11.20		(18)		SANDSTONE (MW):	X						, , , , , ,	1
-6					Brown, fine grained, massive, high strength, indurated and/or slightly								
					metamorphosed.						J, 70°, Pl, T, CInf		
-					Defects: -Joint at 15°-20° (1-2/m)	1 1 1							
<u> </u>			100		-Joint at 40°-45° (4/m) -Joint at 70° (2/m)	: : :]- J, 70°, I, T, CInf		
F ⁷			(0)		-Joint at 80°-85° (2/m)	: : :					⊐– CLy BZ		
					Defects are generally very close to closely spaced.						⊐— CLy BZ		
					Defect surfaces are planar, tight or open, smooth, clay infilled or iron stained.	:::	MW						
-8			100		sillouti, day illilled of itoff stailled.		1919.9		F		XW Clay Seam		
			(0)			:::							
F	l					:::						ls(50) = 4.54MPa ls(50) = 10.52MPa	x ·
-6						:::					CLy BZ	13(UU) - 10.02IVIPA	
-9			(0)	-					<u> </u>				
ŧ []				ĺ
FI													'
E 10			100			<u> </u>					Siltstone Interbed		<u>L</u>
Ŕ	EMARKS											LOGGED BY	
		-										JA/DC	



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010 BOREHOLE No BH C35 SHEET 2 of 3 .

REFERENCE No H11125

	NOITA	-	9								ORDINATES <u>471822.0 E; 7094449</u>	. <u>o IN</u>
					SURFACE R.L82.80m_ PLUNGE				TARTED			-=
DΒ	No	232/	10 <u>A</u> /2		HEIGHT DATUM _AHD BEARING			DATE COM	IPLETED .	20/07	DRILLER Drillsure Pty	Ltd_
	R.L.	o g	RQD ()%]	П.,	INTACT STRENGTH	DEFECT SPACING	(0)	ADDITIONAL DATA	Τ
DEPTH (M)	(m) 72.80	N N N	. , , ,		MATERIAL	≿	NIN N	STRENGTH	(mm)	5070	AND	ر س
			CORE	SAMPLE	DESCRIPTION	LITHOLOGY	\ \ \ \ \ \ \ \ \ \ \ \ \		8	GRAPHIC		SAMPLES
10	72.80	PASS S S S S S S S S S S S S S S S S S S	REC %	SAN		島	USC	₩₩₽₽₽₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	88888	GR/	TEST RESULTS	
			(18)		SANDSTONE (MW): Cont'd	: : :					Siltstone Interbed Is(50) = 0.27MPa Is(50) = 0.56MPa	
						:::						
									Ų			
11						:::	1.004					
						::::	MW					
			100			:::					Conglomerate channel, pebbles up to 25mm. Is(50) = 2.95MPa	, ,
			(39)			:::					Is(50) = 2.91MPa	
2	70.05					:::						
ŀ	70.65				SILTSTONE (MW):	× ×			<u> </u>		<u> </u>	1
					Grey/brown, fine grained, subtly foliated, high strength, indurated and/or slightly	××					(50)	
					metamorphosed.	x x					ls(50) = 1.00MPa ls(50) = 2.59MPa	باللا
3			100		Defects:	××					DD = 2.46t/m ³ ; WD = 2.52t/m ³ ; MC = 2.6%; UCS=6.4MPa	
			(36)		-Joint at 30° (3/m) -Joint at 50° (3-4/m)	× × × × × × × × × × × × × × × × × × ×	MW		<u> </u>		CLy BZ	
					-Joint at 70° (<1/m)	××						
					Defects are close to medium spaced.	××						
4					Defect surfaces are planar or irregular, tight or open, slightly rough, clay infilled or	×××						
	68.44				iron stained.	××						
			100		SANDSTONE (MW): Grey/brown, fine to medium grained,	:::						1
			(0)		massive, high strength, indurated and/or slightly metamorphosed.							
15						:::						
					Defects: -Joint at 5°-10° (1/m	: : :						
					-Joint at 60° (4/m) -Joint at 70°-75° (~1/m)	:::						
Ì					-Joint at 80° (~1/m)							
6		_	100		Defects are generally closely spaced.	:::	h sta z					
			(17)		Defect surfaces planar, tight or open, smooth, clay infilled or iron stained.	:::	MW					
					· · ·						٦	
7						:::					- Siltstone Interbed	
1						:::						
			400			:::					J, 70°, C, QZ.	
		-	(0)									
8	64.70					: : :						
ŀ	04.70				SANDSTONE (SW):	:::		-1			J, 80°, Pl, O, SR. CLy, FeSt Siltstone Interbed	1
					As above except grey.	:::	sw				J, 80°, PI, O, SR. CLy, FeSt J, 80°, PI, O, SR. CLy, FeSt	
		ŀ	100				0,,				-,,,,,,	
9	63.83		('')		SILTSTONE (SW):	× ×			<u> </u>		XW Clayey Band Is(50) = 0.51MPa	-
					Grey, fine grained, subtly foliated, mainly	X X						
			100		high strength, indurated and/or slightly metamorphosed.	x x	sw		-		HFZ	
			(0)		(See over)	X X X X X X X X X X X X X X X X X X X						
اه					(000 0461)	x x	1		ŀ	1		1



ENGINEERING BOREHOLE LOG

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

PRO	JECT ATION				pgrade (Cooroy to Curra) Section C								
					SURFACE R.L. <u>82.80m</u> PLUNGE			DATE S	· — – STARTED _				
JOB					HEIGHT DATUM _AHD BEARING _								<u>_td</u>
0 ОЕРТН (т)	R.L. (m)	AÜGER CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	ПТНОГОБУ	USC	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG		ODITIONAL DATA AND TEST RESULTS	SAMPLES
20	62.60	111	REG %		SILTSTONE (SW): Cont'd	X :				Ť	HFZ		
221 221 22 23 23 23 23 23	59.50		100 (10)		Defects: -Joint at 30° (2/m) -Joint at 50° (3/m) -Joint at 70° (2-3/m) Defects are generally medium spaced. Defect surfaces are planar, tight or open, smooth, clay infilled.	X	x sw				DD	Is(50) = 0.06MPa Is(50) = 2.74MPa = 2.58t/m³; WD = 2.60t/m³, MC = 0.8%; UCS=18.8MPa	x _ u&s _
-	38.30		100		Borehole terminated at 23.3m			-	+				_
22 23 24 25 25 25 25 25 25 25										- Tring again.			
	EMARK:	S				नार		15055				LOGGED BY JA/DC	
							_					JAVDC	



CORE PHOTO LOG - BH C35

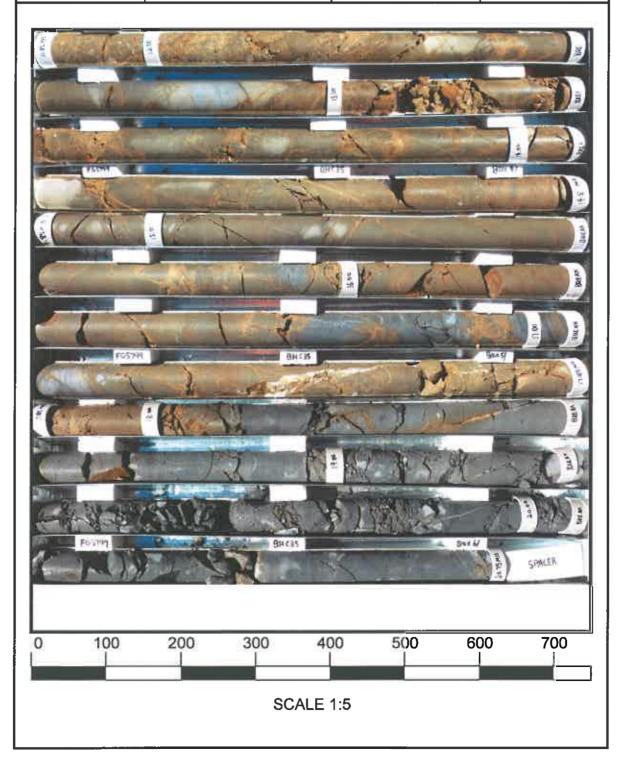
		PGRADE - SECTION C	BRUCE HIGHWAY	Project Name:
Details: Cut 9 Start Depth (m): 2.90	08/09/2011	Date:	FG5799	Project No.:
	2.90	Start Depth (m):	Cut 9	Details:
Reference No.: H11125 Finish Depth (m): 23.30	23.30	Finish Depth (m):	H11125	Reference No.:





CORE PHOTO LOG = BH C35

Project Name:	BRUCE HIGHWAY UPG	RADE - SECTION C	
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 9	Start Depth (m):	2.90
Reference No.:	H11125	Finish Depth (m):	23.30





CORE PHOTO LOG - BH C35

Project Name:	BRUCE HIGHWAY UP	PGRADE - SECTION C	
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 9	Start Depth (m):	2.90
Reference No.:	H11125	Finish Depth (m):	23.30

