COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the <u>Creative Commons Attribution 4.0 Licence</u> (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence". This licence does not apply to the Queensland Government logo or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database http://qgd.org.au/



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010 BOREHOLE No BH C21

SHEET 1 of 3 REFERENCE NO H11114

				Jpgrade (Cooroy to Curra) Section C					OORDINATES 472623.2 E; 7092450.5 N
				SURFACE R.L. 100.70m PLUNGE			DATE \$TART		7/11 GRID DATUM MGA94
				HEIGHT DATUM AHD BEARING					
R.L. (m) E HL E G	AUGER WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	ГІТНОГОСУ	USC	INTACT DEF STRENGTH SPAC (m		ADDITIONAL DATA AND TEST RESULTS
100.50				TOPSOIL:	3 1 ₂				
99.90				Gravelly Silty SAND (Residual): Brown/orange, dry, dense. SANDSTONE (HW): Yellow/grey, fine to medium grained.		(SM)			- Based on driller's logs only
98.70			A	rellow/grey, line to medium grained.		HW	† † † † †		19,30,HB N>50
		(25)		SANDSTONE (MW): Brown/becomming slightly grey with depth, fine to medium grained, massive, medium to high strength, indurated and/or slightly metamorphosed.					— J, 40°, PI, T, R, CInf — J, 30°, PI, T, CInf — J, 60°, PI, T, CInf
.3		100		Defects: -Joint at 20° (1/m) -Joint at 40° (3/m) -Joint at 70° (1/m)					Is(50) = 0.45MPa L
		(14)			:::				— J, 50°, Pl, T, S, Thinly Clnf
				Defect spacing is generally close to medium. Defect surfaces are planar, tight, slightly rough, clay infilled, iron stained.					J, 40°, PI, T, S, CInf J, 40°, PI, T, S, CInf J, 40°, PI, T, S, CInf Is(50) = 0.52MPa o
5	Ц	100							— J, 40°, PI, T, S, CInf — J, 80°, PI, O, CInf, 10mm
		(9)							CLy BZ
6		100				MW			— J, 80°, I, T, R, Clnf Is(50) = 1.38MPa ×
7 8		(7)						-	- CLy BZ - HW Zone - J, 10°, Pl, O, SR, Clnf, FeSt - J, 30°, Pl, T, S, FeSt
8		100							— J, 60°, Pl, T, FeSt
		(15)							Is(50) = 3.32MPa x
9		100							J, 70°, PI, T, Cinf, FeSt CLy BZ J, 50°, PI, T, Cinf
REMARKS								<u> </u>	LOGGED BY JA/DC



ENGINEERING BOREHOLE LOG

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

BOREHOLE No __BH_C21__

SHEET __2__ of __3__

REFERENCE No __H1114__

PROJ		Bruce Highway Upgrade (Cooroy to Curra) Section C COORDINATES							OORDINATES <u>472623.2 E; 709245</u> 6			
					SURFACE R.L100.70m PLUNGE	0.000		DATE S	 STARTED			
JOB N					HEIGHT DATUM _AHD BEARING _							
DЕРТН (m)	D.I.	FR H BORING E DRILLING	RQD ()%		MATERIAL	T	T-1	INTACT STRENGTH	DEFECT		ADDITIONAL DATA	
DEP.	90.70	ASH E	CORE	SAMPLE	DESCRIPTION	LITHOLOGY	SC EATH	딾壬ᅩᇂᅧᅻᆏ	8,8,8,8	3APH	TEST RESULTS	SAMPLES
10	90.70	 ≾≷2	REC %	ŝ	SANDSTONE (MW): Cont'd	1::	ĭĭ∣≶			5	⇒- Clayey Seam	× =
					SANDOTONE (MW). CORC						— J, 70°, PI, T, S, CInf	
-			100								J, 50°, PI, T, FeSt	
-11 - - -			(22)								Is(50) = 0.07MPa Is(50) = 0.05MPa	a x
-12 13 13 15 15 16 17 18			100									
-			(0)						I		II ⊢ BZ	-
- 13						: : :				111	□ Crushed Zone	-
									L		J, 40°, PI, T, FeSt BZ	
-						:::			1			-
			100						占			
- 14			(14)								— Total water loss	-
											1000	1.
											Is(50) = 1.02MP: J, 70°, Pl, C, Cinf	a L
- 15							MW		-		***************************************	.
									-			
-												'
											Is(50) = 2.68MP	a x
-16			100								Is(50) = 2.68MP Is(50) = 2.04MP	a o
			(0)									
:										##	BZ, DI?	
-17									Щ			
-			100					L			J, 30°, Pl, T, R, Clnf	-
			(18)									.
					18.00m: Colour becomes grey/brown.						Is(50) = 4.11MP 	a x
-											BZ	a o .
											— J, 40°, Pl, T, SR, FeSt	
-19												-
											— J, 40°, Pl, R, FeSt	
20							<u>L</u> _		H		J, 40°, R, Clnf	<u></u>
R	EMARK	8					_				LOGGED BY	
											_ JA/DC	



QLD_DMR_LIB_01A.GLB LOG A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG46352.GDW Datgel CPT Tool gint Add-in 12/12/2011 16:29

ENGINEERING BOREHOLE LOG

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

PRO	JECT	Bruc	<u>e Highw</u>	ay L	pgrade (Cooroy to Curra) Section C	 							
LOC	ATION	<u>Cut 7</u>	<u> </u>							CC	OORDINATES <u>472623.2</u>	E; 7092450.5 N	_
PRO	JECT No	_FG5	<u>799</u>		SURFACE R.L. 100.70m PLUNGE	 _		DATE S	TARTED _	03/07	<u>//11</u> GRID DATUM <u>N</u>	1 <u>GA9</u> 4	_
JOB	No	232/	10 <u>A</u> /2		HEIGHT DATUM <u>AHD</u> BEARING	 _		DATE COM	PLETED _	03/07	<u>//11</u> DRILLER <u>C</u>	airns Drilling Contra	<u>ict</u>
DEPTH (m)	R.L. (m) 80.70	UGER VASH BORING ORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DA AND TEST RESULT	PLES S	
20			REC %	(I)	SANDSTONE (MW): Cont'd	<u> </u>	⊃ >			0	J, 60", PI,SR, Cint, FeSt	σ ⊢	_
	80.45		100			 • •	10100						큭
-21 -22 -23 -24 -25 -26 -27 -28	OU. #2				Borehole terminated at 20.25m								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	T T T T T T T T T T T T T T T T T T T							- - - - -	-				The state of the s
30				Ll					<u> </u>	<u> </u>			ᅼ
R	EMARKS	3 TT:				 _		 				GGED BY JA/DC	



CORE PHOTO LOG - BH C21

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C					
Project No.:	FG5799	Date:	06/09/2011			
Details:	Cut 7	Start Depth (m):	2.00			
Reference No.:	H11114	Finish Depth (m):	20.25			





CORE PHOTO LOG = BH C21

Project Name:	BRUCE HIGHWAY UPO	GRADE - SECTION C	
Project No.:	FG5799	Date:	06/09/2011
Details:	Cut 7	Start Depth (m):	2.00
Reference No.:	H11114	Finish Depth (m):	20.25
	A STATE OF THE STA	The state of	2
	a de la companya de l		
	Car Ver and interest	A 122	
0		第 4	
FS(A) IX		BOTH Y AV	
I ROTE			N I
		The second	
100000000000000000000000000000000000000		att a land lead of	
	The second second		
-			
FCCTM	SHEAT		3015
and A Figure	7 162-		1
1 8		N	
	••8		
	3	[3]	
		3	Brook
	BHC		
			Brown
			Break
	BHC		Break
FLSTM	BHC		Box 6
FLSTM	BHC	400 500 60	Box 6



CORE PHOTO LOG = BH C21

Project Name:	BRUCE HIGHWAY UPG	RADE - SECTION C	
Project No.:	FG5799	Date:	06/09/2011
Details:	Cut 7	Start Depth (m):	2.00
Reference No.:	H11114	Finish Depth (m):	20.25
0 100		00 500 6	00 700
	SCALE	1:5	