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QLD_DMR_LIB_01.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5825 BRUCE HWY COOROY-CURRA SECTION A BHS.GPJ DWG95012.GDW Datgel CPT Tool gint Add-in 120552010 10:30

ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/5-2009

BOREHOLE No ____BH028___

SHEET ___1__ of __2_

REFERENCE NO ____H10597___

	JECT ATION	BRU Cut		<u>HW/</u>	AY (COOROY - CURRA) SECTION A GEOTE	<u>C</u>	<u>INIC</u>	<u>AL INVESTIGATION</u>		OORDINATE		
					SURFACE R.L. <u>172.18m</u> PLUNGE			DATE STARTED				
JOB					HEIGHT DATUM AHD BEARING							
DЕРТН (m)	R.L. (m)	SER SH BORING RE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	ATHERING	INTACT DEFECT STRENGTH SPACING (mm) #################################	GRAPHIC LOG	000 0000	ODITIONAL DATA AND	SAMPLES
0	172.18	NA NA	REC %	SAN		自	USC	11111 1111	GRA	1	EST RESULTS	SAMPLI
- 1				A	Clayey SILT Pale brown with minor mottled red iron staining, moist, firm to stiff. Intermediate plasticity, traces of organics. Becoming sandy clayey silt with depth.			‡ ‡			1,3,3 N=6	SPT
-2				В			(CI- ML)				3,7,8 N=15	SPT
3				С				‡ ‡ ‡			3,5,6 N=11	SPT
-4	168.23				Silty CLAY Pale grey with minor mottled red iron						6,5,8 N=13	SPT
-5	166.69			400	staining, moist, stiff. High plasticity, traces of organics.		(CL- ML)	#			3,5,8 N=13	SPT
-6	166.68		(0) 43 (59)	F	SILTSTONE (HW): Generally exhibits engineering properties of light brown to grey, moist, clayey Silt. High plasticity.	× > > > > > > > > > > > > > > > > > > >	HW			∑ 7/10/09	9,20,24 N=44 Is(50) = 0.26MPa Is(50) = 0.15MPa	SPT -
	164.68		81 (83)		SILTSTONE (MW): Pale grey to light brown, fine grained, indistinct bedding. Defects medium to wide spacing. Prominent defect sets generally dip at 10°. Defect surfaces are typically iron stained or clean. Detailed defect descriptions are shown on Form GEOT533/8 attached. (See over)	^	MW				Is(50) = 0.20MPa Is(50) = 0.13MPa Is(50) = 0.23MPa Is(50) = 0.22MPa Is(50) = 0.25MPa Is(50) = 0.26MPa	x
	EMARKS	<u>Detai</u>	led defec	t des	criptions are shown on Form GEOT533/8 attach	ed.	Stand	pipe piezometer installe	d	-	LOGGED BY	
										. [JA	



ENGINEERINGBOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/5-2009

BOREHOLE No ____BH028 ___

SHEET ___2__ of __2__

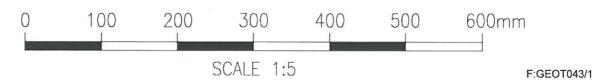
REFERENCE No ____H10597 ___

PROJECT				AY (COOROY - CURRA) SECTION A GEOT				IGATION		00000000000000000000000000000000000000	
LOCATION	_Cut			SURFACE R.L. <u>172.18m</u> PLUNGE _				 STARTED		OORDINATES <u>485653.5 E; 7080898.0 N</u>	
JOB No				HEIGHT DATUM AHD BEARING							
DI DOD INTACT DEFECT											
R.L. (m)	SS	RQD () %					INTACT DEFECT STRENGTH SPACING (mm) WE WITH THE WORLD STRENGTH SPACING (mm) WE WITH THE WORLD STRENGTH SPACING (mm)		ပ္	ADDITIONAL DATA	
DEPTH (m)	R BORING DRILLING	u	Щ	MATERIAL	.0GY			(mm)	GRAPHIC LOG	AND S	S
	ASH ORE	CORE	SAMPLE	DESCRIPTION	LITHOLOGY	USC	┆╓⋧┰≅┐⋛╓ ┆	28888	RAP	AND SET RESULTS SET WAS	TESTS
10 162.18	450	REC % (94)	S	SILTSTONE (MW): (Cont'd)	X >	⊃ : 3	5 111111		O	Is(50) = 0.16MPa	Χ.
E					× > > × > × > × > × > × > × > × > × > ×					Is(50) = 0.11MPa	0 -
F					X X	X					-
					×××	×					o -
- 11 - 11		400			X >	Ŷ					-
		(100)			× > × > × >	X					-
F					× > × > × >	X					-
12					× × × ×	X					x .
				Detailed defect descriptions are shown on Form GEOT533/8 attached.						Is(50) = 0.14MPa	
					X X	X MV	,				-
		100 (100)			X X X X X X X X X X X X X X X X X X X						-
13						×				x -	
					× > × > × >	ž					-
					×						-
		2000			× ×	X					-
-14		(97)				X					x -
		3 3			××					ls(50) = 0.29MPa	0 -
					× ×	X					-
157.18		100		14.73 - 15.00m: Becoming sandy.	X X	×					-
15 107.10				Borehole terminated at 15m							-
								‡			-
-							1 11 3	‡			-
16								<u> </u>			-
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1 – 19 -							1 2 2 2 3	-			-
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							1 1010	‡			-
F 20					<u>L</u>		L	<u> </u>			-
REMARK	S <u>Deta</u> i	led defec	t de	scriptions are shown on Form GEOT533/8 attach	ied.	Stan	dpipe piezome	eter installed	<u>.</u>	LOGGED BY	
						. — -				_ JA	

Project: <u>Bruce Highway Upgrade (Cooroy - Curra) Section A</u>

Borehole No: BH28
Start Depth: 6.00m
Finish Depth: 15.00m
Project No: FG5825
H No: 10597





GEOTECHNICAL BRANCH LABORATORY

Materials Services - Brisbane 35 Butterfield Street, HERSTON Q 4006 Phone: (07) 3115 3035 Fax: (07) 3115 3011



DEFECT DESCRIPTIONS OF ENGINEERING BORELOGS

[CHARACTERISATION OF DEFECTS ARE IN ACCORDANCE WITH ISRM SUGGESTED METHODS (1981)]

BOREHOLE NO.:	BH28				
SHEET:	1 of 1				
REFERENCE NO.:	H10597				

Bruce Highway (Cooroy - Curra) Section A Geotechnical Investigation LOCATION:

Cut 11

FG5825

SURFACE R.L.: 172.18 DATUM:

DRILLER:

R & D Drilling

PROJECT NO .: JOB NO.:

PROJECT:

128/10A/901

MGA94

DATE DRILLED:

10/08/09

DEPTH	DEFECT TYPE	DIP°	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
6.13	J	15°	PL	S	0		Fe plating in ioint, 2mm
6.24	J	40°	UN	SR	0		ioint. 2mm Fe plating in ioint, 1mm
9.87	J	5°	PL	SR	0		
10.12	J	10-20°	IR	SR	0		
10.19	J	5°	PL	SR	0		
10.46	J	0°	PL	R	0		!s
						385000 to 100	/H
			W.27				
							WI POLICE TO
						THE STATE OF THE S	
					222		
							¥.

Abbreviations (as per F: GEOT 017/5 - 2009)

	ROUGHNESS		WALL ALTERATIONS		TYPE		OTHER		
R	Rough	FeSt	FeSt Iron Stained		Joint, Joints	Cln	Clay Infill		
Sr	Slightly Rough	W	Weathered	В	Bedding	CLy	Clayey		
S	Smooth	Smn	Secondary Mineralisation	BP	Bedding Parting	Со	Coal Seam		
SL	Slickensided	Cn	Clean	FP	Foliation Parting	Carb	Carbonaceous		
РО	Polished	MnSt	Manganese Stained	LP	Lamination Parting	SI	Sand Infill		
	PLANARITY		APERTURE		Cleavage	QZ	Quartz		
PI	Planar	С	Closed	Fr	Fracture	CA	Calcite		
St	Stepped	0	Open	SZ	Sheared Zone	Chl	Chlorite		
Un	Undulating	F	Filled	CZ	Crushed Zone	In	Incipient		
Cu	Curved	Т	Tight	BZ	Broken Zone	Int	Intersecting		
lr	Irregular			HFZ	Highly Fractured Zone	Lam (s)	Lamination (s)		
				WS	Weathered Seam	Di	Drilling Induced		
				Vn	Vein	Н	Horizontal		
						V	Vertical		

NOTE: This sheet should be read in conjunction with appropriate Engineering Borelog, Defect angles were measured with respect to horizontal plane.