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ENGINEERING BOREHOLE LOG

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

BOREHOLE No _____BH051___

SHEET ___1__ of __1__

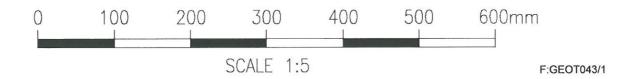
REFERENCE No ____H10611___

	JECT ATION				AY (COOROY - CURRA) SECTION A GEOTE	<u>CH</u>	NICA	L INVESTIGATION		ORDINATES 483219.6 E; 7081111.7	 'N
		1000			SURFACE R.L. <u>115.54m</u> PLUNGE _			DATE STARTED _	15000		
JOB	No	_128/	10A/ <u>9</u> 01		HEIGHT DATUM _AHD BEARING			DATE COMPLETED _	17/8/0	DRILLER Geo Drill	
o DEPTH (m)	R.L. (m)	AÜGER CASING WASH BORING		SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
- 1				А	Clayey SILT Red-brown to orange-brown with HW clasts of rock colluvium.		(CI- ML)	+ + + + + + + + + + + + + + + + + + +		3,4,5 N=9	SPT :
-	113.54			В	Mottled yellow-brown, becoming silt.					3,5,8 N=13	SPT]
-3				С	Sandy SILT (Resdiual) Grey and yellow-brown, fine grained, with some clay.		MLS			6,10,10 N=20	SPT
4	111.54			D	Foliations observed in sample recovery.			#		10,13,17 N=30	SPT
5			86 (0) 31 (0)	X	PHYLLITE (HW) Yellow-brown, fine grained, with off-white clay seams throughout. Intermixed clay and quartz gravels. Weakly foliated, generally steeply dipping.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	HW			Is(50) = 0.53MPa Jt, 85°- 90°, clay and gravel infill Disturbed zone of Is(50) = 0.05MPa clay and quartz Is(50) = 0.07MPa gravel Disturbed zone of clay and quartz gravel Is(50) = 0.08MPa gravel	x - x - x - x - x - x - x - x - x - x -
7	109.08		28 (0) 100 (0)	X	PHYLLITE (MW) Pale brown, fine grained. Weakly to moderately foliated, typically 50°. Defects closely spaced. Defects typically dipping at 10° and 80°. Some defect surfaces clay infilled. Detailed defect description shown on Form GEOT533/8 attached.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MW			Disturbed zone of - clay and quartz gravel	x
9	107.04		100		Borehole terminated at 8.5m	*** 				Is(50) = 0.31MPa Is(50) = 0.17MPa	0 X
	REMARK	S Deta	iled defe	ct de	escriptions are shown on Form GEOT533/8 attack	hed.				LOGGED BY AN	

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

Borehole No: BH51
Start Depth: 3.00m
Finish Depth: 8.50m
Project No: FG5825
H No: 10611





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.:
 BH51

 SHEET:
 1 of 2

 REFERENCE NO.:
 H10611

 PROJECT:
 Bruce Highway (Coordy - Curra) Section A Geotechnical Investigation

 LOCATION:
 Cut 17

 PROJECT NO.:
 FG5825
 SURFACE R.L.: 115.5
 DRILLER: Geodrill

 JOB NO.:
 128/10A/901
 DATUM: AHD
 DATE DRILLED: 17/08/09

DEPTH	DEFECT TYPE	DIP°	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
4.0-4.05	WS						Clay Seam
4.16-4.2	WS						Clay Seam
4.23	J	30	PI	S	0	Cn	
4.28	J	30	PI	S	0	CI	
4.28-4.35	WS						Clay Seam
4.45-4.48	WS						Clay Seam
4.48	J	60	PI		С	CI	
4.59-4.62	WS						Clay Seam
4.62	J	70	PI	S	0	FeSt	
4.68	J	60	lr	SR	0	FeSt	
4.7-4.88	WS	80					Clay Seam
4.88-5.20	WS						Clay Seam
5.5-5.72	WS						Clay and Quatz Gravel
6.0-6.03	QZ	60					Highly Fractured
6.06	J	65	PI	S	0	FeSt	
6.46-6.64	BZ						
6.60	J	60	PI	S	0	FeSt	
6.65	J	10	PI	SR	0	FeSt	

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

	ROUGHNESS		WALL ALTERATIONS		TYPE	OTHER		
R	Rough	FeSt	Iron Stained	J, Js	Joint, Joints	CI	Clay Infill	
Sr	Slightly Rough	W	Weathered	В	Bedding	CLy	Clayey	
S	Smooth	Smn	Secondary Mineralisation	BP	Bedding Parting	Co	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	T	Tight	BZ	Broken Zone	Int	Intersecting	
lr	Irregular			HFZ	Highly Fractured Zone	Lam (s)	Lamination (s)	
a 1945				WS	Weathered Seam	Di	Drilling Induced	
111 100000223				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.

 BOREHOLE NO.:
 BH51

 SHEET:
 2 of 2

 REFERENCE NO.:
 H10611

DEPTH	DEFECT TYPE	DIP°	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
6.65	J	70	PI	S	0	FeSt	250mm
6.82	J	10	Cu	S	0	FeSt	
6.96	J	10	PI	S	0	FeSt	
7.04	J	10	PI	SR	0	FeSt	
7.04	J	60	PI	S	0	FeSt	
7.07	J	60	PI	S	0	FeSt	
7.13-7.16	WS						Clay
7.2	J	45	PI	S	0	FeSt	
7.21	J	60	PI	SR	0	FeSt	
7.36	J	10	PI	SR	0	FeSt	
7.4	J	80	PI	S	0	FeSt	50mm Long
7.45	J	20	PI	S	0	FeSt	
7.47	J	20	St	SR	0	FeSt	
7.55	J	30	Pl	S	0	Cn	
7.62	J	40	PI	S	0	FeSt	
7.62	J	80	lr		С	FeSt	200mm
7.71	J	70	PI		С	Cl	150mm Long
7.81	J	45	PI		С	FeSt	
7.9	J	70	PI	S	0	FeSt	
7.93	J	20	PI	S	0	FeSt	
8.01	J	30	PI		С	CI	
8.04	J	30	PI	S	0	FeSt	
8.21	J	30	lr	R	0	FeSt	
8.26	J	30	PI	SR	0	FeSt	
8.31	J	40	Pl		С	FeSt	
8.33	J	90	PI	R	0	FeSt	
8.37	J	20	PI	S	0	CI	
8.43	J	10	PI		С	Cl	5mm Thick
8.43	J	80	Pl		С	FeSt	60mm Long