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 017/5-2009

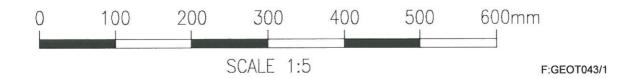
BOREHOLE No	BH053
SHEET	_1_ of _1_
REFERENCE No	H10612

PROJECT	BRU	<u>CE HIGI</u>	HW/	<u> AY (COOROY - CURRA) SECTION A GEOTE</u>	CH	NIC/	L INVESTI	<u>GATION</u>			
LOCATION	Cut 19 COORDINATES 482905.7 E; 7080900.9 N									<u> </u>	
PROJECT No	_FG58	<u> 325</u>	. — -	SURFACE R.L112.20m PLUNGE			DATE S	TARTED _	19/8/0		
JOB No	128/1	<u> 10A/901</u>	. — -	HEIGHT DATUM _AHD BEARING			DATE COM	IPLETED _	19/8/0	DRILLER Geo Drill	
R.L. (m)	AUGER WASH BORING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	ГІТНОГОСУ	USC	INTACT STRENGTH ボチェヌーラゴ	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
			Α	Clayey SILT (Colluvium) Pale brown with red mottling, moist, firm, intermediate plasticity.		(CI- ML)				2,3,3 N=6	SPT
ol gNN Add-in 1205/2010 10:31			В	Gravelly SILT (Colluvium) Pale brown to pale grey, moist, becoming dry, very stiff, intermediate plasticity. HW rock fragments throughout.		(MLG)	-		3,5,11 N=16 10,10,12 N=22	SPT
109.00					°C						-
alp DMR_Lib of alb log A EvolNeERING BOREHOLE LOG W LITHOLOGY F65825 BRUCE HWY COORROY-CURRA SECTION A BHS. GPJ DW956012.GDW Datgel CPT Tool gilt Add-in 1205,2010 10:31		(0) 100 (0) 88 (17)		PHYLLITE (MW) Pale grey to brown-grey, fine grained. Weakly foliated, typically dipping at 50°. Defects closely spaced. Defects typically dipping at 10° - 30° and 70°- 90°. Defects often lined with white clayey silt and alteration halos or iron stained.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MW				Is(50) = 0.14MPa Is(50) = 0.20MPa Is(50) = 0.44MPa Is(50) = 0.53MPa Is(50) = 0.85MPa Is(50) = 0.12MPa Is(50) = 0.19MPa Is(50) = 0.16MPa FZ with pale grey clay infill (65mm wide) Jt, 70°, >20mm, white clay infill	x - x - x - x - x - x - x - x - x - x -
3) WEERING BOREHOLE LOG W LITHOLOGY F65825 BRUCE HW		93 100 (0) (38)		Detailed defect descriptions are shown on Form GEOT 355/8 attached. 8.38m Cemented and brecciated. Borehole terminated at 8.4m	***********					Is(50) = 0.34MPa Is(50) = 0.07MPa Is(50) = 0.30MPa Is(50) = 0.73MPa Is(50) = 0.57MPa Is(50) = 1.31MPa Is(50) = 1.31MPa Is(50) = 0.51MPa MC = 10.4%; UCS=2.47MPa Is(50) = 1.29MPa Is(50) = 1.29MPa Is(50) = 0.57MPa	x
	S <u>Deta</u> i	led defe	ct de	scriptions are shown on Form GEOT533/8 attack	ned.					LOGGED BY JA	

Project: Bruce Highway Upgrade (Cooroy - Curra) Section A

Borehole No: BH53
Start Depth: 3.20m
Finish Depth: 8.50m
Project No: FG5825
H No: 10612





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.:	BH53	
SHEET:	1 of 2	
REFERENCE NO.:	H10612	

Geodrill

PROJECT: Bruce Highway (Cooroy – Curra) Section A Geotechnical Investigation

LOCATION: Cut 19

PROJECT NO.: FG5825 SURFACE R.L.: 112.20 DRILLER:

JOB NO.: 128/10A/901 DATUM: AHD DATE DRILLED: 19/08/09

DEPTH	DEFECT TYPE	DIP°	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
3.2-3.45	J	90°	PL	S	0	Cn	
3.3	J	20°	IR	R	0	FeSt	
3.39	J	30°	PL	S	0	Cn	
3.45-4.15	J	90°	PL	S	0	FeSt	
3.9	J	50°	PL	S	0	FeSt	
4.0	J	20°	PL	S	0	FeSt	
4.13	J	60°	PL	S	0	FeSt	
4.3	J	60°	IR	SR	0	FeSt	
4.35	J	70°	PL	S	0	CI	
4.44	J	70°	PL	S	0	FeSt	
4.49-4.57	WS	90°					Clay Seam
4.59	J	50°	PL	S	0	FeSt	
4.63	J	70°	PL	S	0	FeSt	
4.69	J	80°	PL	S	0	FeSt	200mm long
4.91	J	20°	PL	SR	0	FeSt	
4.91	J	80°	PL	S	0	CI	
4.91-5.06	WS						Clay Seam
5.1-5.3	WS						Clay Seam

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		
PO	Polished	MnSt	Manganese Stained	LP	Lamination Parting	SI	Sand Infill		
	PLANARITY		APERTURE		Cleavage	QZ	Quartz		
PL	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		
IR	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.

 BOREHOLE NO.:
 BH53

 SHEET:
 2 of 2

REFERENCE NO.: H10612

DEPTH	DEFECT TYPE	DIP°	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
5.31	J	90°	PL	S	0	FeSt	200mm long
5.37	J	20°	PL	S	0	FeSt	Clay seam throughout
5.43-5.59	WS						
5.45	J	45°	PL		0	CI	
5.53	J	60°	PL	-	0	CI	
5.66	J	20°	PL	-	С	CI	
5.7	J	50°	PL	7-1	С	CI	8mm thick
5.75	J	20°	PL	-	С	CI	5mm thick
5.78-5.80	WS	30.50	1/2				Clay seam
5.80	J	30°	PL	(-)	С	CI	
5.88-5.93	WS						Clay seam
6.0	J	30°	PL	S	0	FeSt, CI	1740-140-15
6.05	J	70°	PL	S	0	FeSt	150 mm long
6.20	J	40°	PL	S	0	CI	
6.21	J	60°	PL	S	0	FeSt	
6.28	J	70°	PL	S	0	CI	1mm
6.39	J	20°	PL	S	0	FeSt	
6.39	J	70°	St	S	0	FeSt	Slight CI
6.49	J	20°	PL	S	0	CI	
6.49-6.61	WS						Clay seam
6.68	J	30°	PL	S	0	CI	
6.71	J	75°	PL	SR	0	FeSt	
6.95	J	45°	PL	S	0	CI	2mm
7.03	J	52	PL	S	0		Slight CI
7.05	J	60°	PL	S	0	CI	
7.11	J	10°	PL	-	С	CI	
7.15	J	20°	PL	S	0	CI	
7.15	J	90°	PL	S	0	CI	350mm long
7.24	J	30°	PL	S	0		Slight CI
7.3	J	10°	PL	S	0	CI	***
7.46	J	20°	PL	SR	0	FeSt	
7.7	J	30°	PL	S	0	MnSt	
7.86	J	60°	IR	R	0	MnSt	
7.94	J	30°	PL	S	0	MnSt	
8.25	J	65	IR	SR	0	MnSt	