

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the [Creative Commons Attribution 4.0 Licence](#) (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://ggd.org.au/>



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH026
SHEET 1 of 2
REFERENCE No H10576

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION
LOCATION Cut 11 COORDINATES 485953.1 E; 7080881.9 N
PROJECT No FG5825 SURFACE R.L. 167.79m PLUNGE _____ DATE STARTED 13/7/09 GRID DATUM MGA94
JOB No 128/10A/901 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 13/7/09 DRILLER R & D Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	167.79		CORE REC %				EH VH I M J VL EL	20 60 200 600 2000				
0.5				A	Clayey SILT Pale grey with minor mottled red iron staining, moist, hard.						2,23,14 N=37	SPT
1.0					Organics throughout.							
1.5	166.29											
2.0	165.79		(42)	B	SILTSTONE (XW): Generally exhibits engineering properties of pale grey to mottled red, moist, hard clayey silt.	XW					8,14,21 N=35	SPT
2.5					SILTSTONE (HW): Grey with red mottling, fine grained.	HW					Is(50) = 0.07MPa Is(50) = 0.05MPa	o x
3.0	165.26				SILTSTONE (MW): Pale grey with mottled red and orange, fine grained, medium bedded.						Is(50) = 0.07MPa Is(50) = 0.14MPa	x o
3.5					Defects generally dip at <10° and are open.						Is(50) = 0.04MPa Is(50) = 0.04MPa	x o
4.0			100 (53)		Defect surfaces are typically planar, smooth, iron stained.						Is(50) = 0.04MPa Is(50) = 0.04MPa	x o
4.5					3.41 - 3.75m: Pale brown, medium grained, thinly bedded, HW Sandstone.							
5.0			100 (0)								Is(50) = 0.11MPa Is(50) = 0.10MPa	x o
6.0												
6.5			100 (48)			MW					Is(50) = 0.12MPa Is(50) = 0.17MPa	x o
7.0												
7.5											Is(50) = 0.21MPa Is(50) = 0.19MPa	x o
8.0											Is(50) = 0.15MPa Is(50) = 0.15MPa	x o
8.5												
9.0			100 (61)		Detailed defect descriptions are shown on Form GEOT533/8 attached.						Is(50) = 0.19MPa Is(50) = 0.19MPa	x o
9.5												
10.0					(See over)						Is(50) = 0.16MPa	x

REMARKS Detailed defect descriptions are shown on Form GEOT533/8 attached. Standpipe piezometer installed.

LOGGED BY
JA



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

REFERENCE No **H10576**

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 13/7/09 DRILLER R & D Drilling

OLD DMR LIB 01 GLB Log A ENGINEERING BOREHOLE LOG W LITHOLOGY FG5825 BRUCE HWY COOROY-CURRA SECTION A BHS.GPJ DWG95012 GDW Datatel CPT Tool 12/05/2010 10:30

LOGGED BY
JA

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
Borehole No: **BH26**
Start Depth: 2.00m
Finish Depth: 15.35m
Project No: FG5825
H No: 10576



SCALE 1:5

F:GEOT043/1

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
Borehole No: **BH26**
Start Depth: 2.00m
Finish Depth: 15.35m
Project No: FG5825
H No: 10576



SCALE 1:5

F:GEOT043/1

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.:	BH26
SHEET:	1 of 3
REFERENCE NO.:	H10576

PROJECT:	Bruce Highway (Cooroy – Curra) Section A Geotechnical Investigation					
LOCATION:	Cut 11					
PROJECT NO.:	FG5825	SURFACE R.L.:	167.79	DRILLER:	R&D Drilling Pty Ltd	
JOB NO.:	128/10A/901	DATUM:	MGA94	DATE DRILLED:	13/07/09	

DEPTH	DEFECT TYPE	DIP°	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
2.13	J	10°	PI	Sr	O	FeSt	
2.36	J	10°	PI	S	O	Cn	
2.44	J	10°	PI	S	O	FeSt	
2.45	J	10°	PI	R	O	FeSt	
2.53	J	70°	PI	S	O	FeSt	
2.68	J	10°	Ir	R	O	FeSt	
2.81	J	10°	PI	R	O	FeSt	
2.94	J	10°	PI	S	O	FeSt	
2.94	J	80-90°	PI	Sr	O	FeSt	60mm long
3.16	J	80-90°	PI	Sr	O	FeSt	40mm long
3.20	J	20°	PI	S	O	FeSt	
3.23	J	10°	PI	Sr	O	FeSt	
3.56	J	10°	PI	Sr	O	Cn	
3.59	J	10°	PI	Sr	O	Cn	
3.68	J	10°	PI	S	O	FeSt	
3.78	J	10°	PI	S	O	FeSt	
3.84	J	10°	PI	S	O	FeSt	
4.29	J	10°	PI	S	O	Cn	

Abbreviations

ROUGHNESS		WALL ALTERATIONS		TYPE		OTHER	
R	Rough	FeSt	Iron Stained	J, Js	Joint, Joints	Cln	Clay Infill
Sr	Slightly Rough	W	Weathered	B	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	Sl	Sand Infill
PLANARITY		APERTURE		CLV	Cleavage	QZ	Quartz
PI	Planar	C	Closed	Fr	Fracture	CA	Calcite
St	Stepped	O	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	H	Horizontal
						V	Vertical

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

F:GEOT533/7

BOREHOLE NO.:	BH26
SHEET:	2 of 3
REFERENCE NO.:	H10576

DEPTH	DEFECT TYPE	DIP°	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
4.42	J	20°	Pl	S	O	Cn	
4.51	J	10°	Pl	S	O	FeSt	
5.05	J	20°	Pl	St	O	FeSt	
5.12	J	30°	Pl		C	FeSt	
5.15	J	40°	Pl	S	O	FeSt	
5.19	J	10°	Pl	S	O	FeSt	
5.22	J	10°	Pl	S	O	FeSt	
5.31	J	10°	lr	R	O	FeSt	
5.34	J	10°	Pl	S	O	FeSt	
5.43	J	10°	Pl	S	O	FeSt	
5.46	J	10°	Pl	S	O	FeSt	
5.48	J	10°	Pl		C	FeSt	
5.75	J	10°	Pl	S	O	FeSt	
5.82	J	60°	Pl		C	FeSt	
5.97	J	20°	Pl		C	FeSt	
6.11	J	45°	Pl		C	FeSt	
6.31	J	20°	Pl	S	O	FeSt	
6.40	J	40°	Pl	S	O	Cn	
6.45	J	10°	Pl		C	FeSt	
6.6	J	60°	Pl	S	O	Cn	
6.75	J	10°	Pl	S	O		
7.05	J	50°	Pl		C	FeSt	
7.25	J	85°	Pl	S	O	Cn	
7.31	J	10°	Pl	S	O	FeSt	
7.33	J	10°	Pl	Sr	O	FeSt	
7.48	J	10°	Pl	S	O	FeSt	
7.78	J	25°	Pl	S	O	FeSt	
7.84	J	25°	Pl	S	O	FeSt	
7.98	J	20°	Pl	S	O	FeSt	
8.04	J	10°	Pl	S	O	FeSt	
8.13	J	10°	Pl	S	O	FeSt	
8.34	J	30°	Pl	S	O	FeSt	
8.70	J	60°	Pl	S	O	Cn	
8.94	J	10°	Pl	S	O	FeSt	
8.99	J	10°	Pl	S	O	FeSt	
9.05	J	10°	Pl	S	C	FeSt	
9.18	J	10°	Pl	S	O	MnSt	
9.27	J	20°	Pl	S	O	MnSt	
9.38	J	30°	lr	S	O	MnSt	
9.42	J	10°	Pl	S	O	MnSt	
9.61	J	20°	Un		C		
10.02	J	10°	Pl	S	O	FeSt	
10.22	J	10°	Pl	S	O	FeSt	
10.29	J	10°	Pl	S	O	FeSt	
11.12	J	80°	lr	Sr	O	Cln	100 mm long
13.26	J	10°	Pl	S	O	Cn	
13.32	J	10°	Pl	S	O	Cn	
13.34	J	10°	Pl	S	O	Cn	
13.55	J	15°	Pl	S	O	Cn	
13.61	J	15°	Pl	S	O	Cn	
13.65	J	10°	Pl	S	O	Cn	
13.96	J	10°	Pl	R	O	Cn	
14.07	J	20°	Pl	S	O	Cn	
14.17	J	20°	Pl	S	O	Cn	
14.24	J	10°	Pl	Sr	O	Cn	
14.34	J	15°	Pl	S	O	Cn	

BOREHOLE NO.:	BH26
SHEET:	3 of 3
REFERENCE NO.:	H10576

DEPTH	DEFECT TYPE	DIP°	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
14.51	J	10°	PI	Sr	O	FeSt	
14.90	J	20°	PI	Sr	O	Cn	
14.94	J	10°	PI	R	O	FeSt	
15.18-15.22	BZ						WS