

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://qgd.org.au/>



**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH086

SHEET 1 of 3

REFERENCE No H10713

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION

LOCATION Six Mile Creek

COORDINATES 489404.6 E; 7078070.9 N

PROJECT No FG5825

SURFACE R.L. 109.63m

PLUNGE _____

DATE STARTED 30/03/10

GRID DATUM MGA94

JOB No 128/10A/901

HEIGHT DATUM AHD

BEARING _____

DATE COMPLETED 31/03/10

DRILLER R & D Drilling

QLD_DMR_LIB_01.GLB Log A: ENGINEERING BOREHOLE LOG W/LITHOLOGY FG5825 BRUCE HWY COOROY-CURRA SECTION A BHS.GPJ <<DrawingFile>> Dataget CPT Tool gINT Add-In 31/05/2010 09:51

DEPTH (m)	R.L. (m)	AUGER WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY		WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							USC	HT						
0	109.63					Silty Clay Dark grey- pale grey, moist, stiff to very stiff, medium to high plasticity.								
1					A		(CL-Cl)							U100
2	108.03				B	SANDSTONE (XW); Generally exhibits the engineering properties of pale grey with mottled red and brown iron staining, moist, very dense, Sand. Poorly graded; fine grained; occasional iron cemented nodules up to 10mm.	XW						8,11,21 N=32	SPT
3					C								10,19,19 N=38	SPT
4	105.63		(100)			SANDSTONE HW: Mottled orange and red to brown-grey, fine to coarse grained, bedded. Defect spacing is wide to very wide. Defect set dipping at 20-30°. Defects are iron stained. Iron cemented in parts. 5.45 - 5.53m: Conglomerate band. 5.35: Becoming predominately coarse grained.	HW						UCS = 0.97 MPa Is(50) = 0.03MPa Is(50) = 0.03MPa	UCS o x
5			100										Iron cemented bands	
6			(100)											
7			100											
8			(100)											
9	100.83		100			8.45m: Grading into conglomerate at base.								
9			(100)			MUDSTONE (MW): Brown to mottled red, fine grained. Defects are very widely spaced.	MW						Is(50) = 0.16MPa Is(50) = 0.13MPa	x o
10			100			(See over)								

REMARKS _____

LOGGED BY
JA



**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH086

SHEET 2 of 3

REFERENCE No H10713

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION

LOCATION Six Mile Creek COORDINATES 489404.6 E; 7078070.9 N

PROJECT No FG5825 SURFACE R.L. 109.63m PLUNGE DATE STARTED 30/03/10 GRID DATUM MGA94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 31/03/10 DRILLER R & D Drilling

DEPTH (m)	R.L. (m)	ALGER WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
										EH	VH	H	N	J	L	EL	20			
10	99.63					MUDSTONE (MW:) (Cont'd) Defect set dipping at 30-40°. Defect surfaces are iron stained.													UCS = 0.69 MPa	UCS
11																				
12																			UCS = 0.38 MPa	UCS
13								MW												
14																			UCS = 1.02 MPa Is(50) = 0.17MPa	UCS x
15																				
16	93.63					Gradational boundary to fine grained siltstone.														
17						SANDSTONE MW: Light brown to grey, fine grained grading to coarse grained with depth. Defects are widely spaced. Defect set dipping at ~30°. Defect surfaces are typically clean.													UCS = 1.44 MPa	UCS
18								MW												
19																			Is(50) = 0.10MPa Is(50) = 0.07MPa UCS = 1.06 MPa	x UCS
20																				

REMARKS _____

LOGGED BY
JA



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH086
SHEET 3 of 3
REFERENCE No H10713

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION
LOCATION Six Mile Creek COORDINATES 489404.6 E; 7078070.9 N
PROJECT No FG5825 SURFACE R.L. 109.63m PLUNGE DATE STARTED 30/03/10 GRID DATUM MGA94
JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 31/03/10 DRILLER R & D Drilling

DEPTH (m)	R.L. (m)	ALGER WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
									EH	SH	TL	SL	TL				
20	89.63					SANDSTONE (Cont'd) MW:											
			100	(100)													
21																	
			97	(100)		21.75 - 22.35m: Conglomerate interbed, fine grained and coarse sand in clayey matrix.											
22																	
			100														
23																	
			100	(100)													
24	85.52					SILTSTONE MW: Light brown, fine grained.											Is(50) = 0.16MPa Is(50) = 0.13MPa
			100	(100)													x o
25	84.88					Borehole terminated at 24.75m											
26																	
27																	
28																	
29																	
30																	

REMARKS _____

LOGGED BY
JA

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**

Borehole No: **BH 86**

Start Depth: 8.00m

Finish Depth: 24.75m

Project No: FG5825

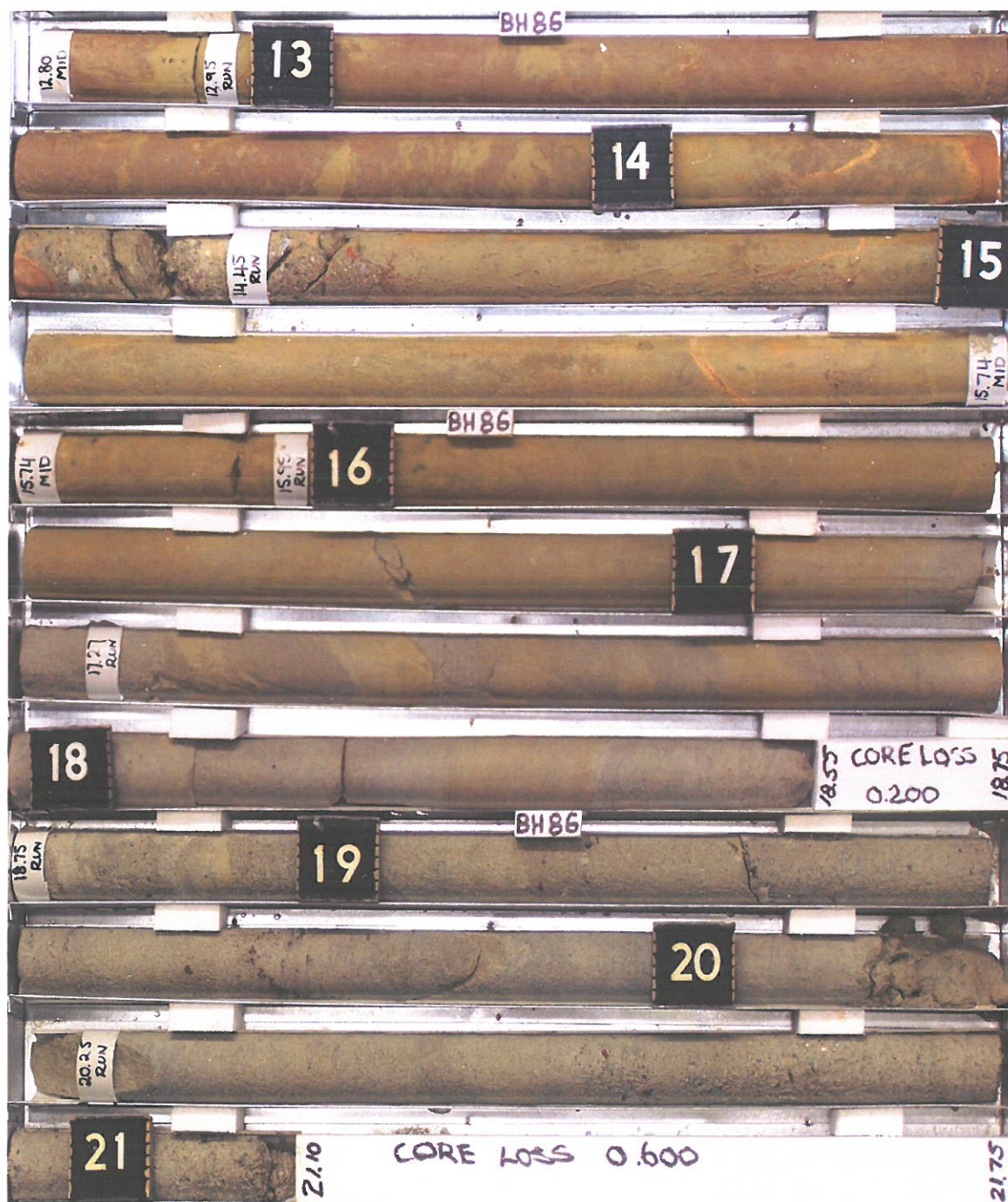
H No: 10713



SCALE 1:5

F:GEOT043/1

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
 Borehole No: **BH 86**
 Start Depth: 8.00m
 Finish Depth: 24.75m
 Project No: FG5825
 H No: 10713



SCALE 1:5

F:GEO043/1

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**

Borehole No: **BH 86**

Start Depth: 8.00m

Finish Depth: 24.75m

Project No: FG5825

H No: 10713



SCALE 1:5

F:GEOT043/1