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**Queensland  
Government**

Department of  
Main Roads

# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH105

SHEET 1 of 2

REFERENCE No H10675

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

LOCATION Cut 11 COORDINATES 485464.7 E; 7080923.2 N

PROJECT No FG5825 SURFACE R.L. 165.42m PLUNGE        DATE STARTED 4/2/10 GRID DATUM MGA94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING        DATE COMPLETED 4/2/10 DRILLER Drillsure

DEPTH (m)	R.L. (m)	AUGER CASING CORE DRILLING	RQD ( ) %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	165.42		CORE REC %					EH VH H M J VL EL	20 60 200 600 2000				
0	165.42				<b>Clayey SILT</b> Brown to mottled red, moist, firm.								
1				A	Intermediate plasticity; traces of organics.		(MI)					2,3,4 N=7	SPT
2	163.92			B	<b>Interbedded SILTSTONE and SANDSTONE (XW - HW):</b> Pale brown with pale grey mottles, thinnly bedded.							10,12,17 N=29	SPT
3			(30)		Siltstone is fine grained. Sandstone is well graded, with fine to coarse grained beds.								
4			100 (50)		In parts exhibits the engineering properties of very dense clayey Sand or very hard clayey Silt.								
5			100 (50)		Coarse, sandy interbeds at: 2.75 - 3.03m 5.55 - 5.60m							UCS= 0.5 MPa	UCS
6				X	Defects are typically medium to widely spaced. Defects dip at 35 - 55° and are generally planar and closed.		XW-HW						
7			83 (30)		6.8m: Colour change to pale greyish-yellow.								
8			100 (80)		7.1m: Residual rock structure becoming more apparent.						Jt, 80°, PI		
9			100 (30)		9.12 - 9.35m: Cemented, fine grained sand layer.							Is(50) = 0.12MPa Is(50) = 0.14MPa	x o
10	155.72				(See over)		HW						

REMARKS Standpipe piezometer installed at base of hole.

LOGGED BY  
MLW



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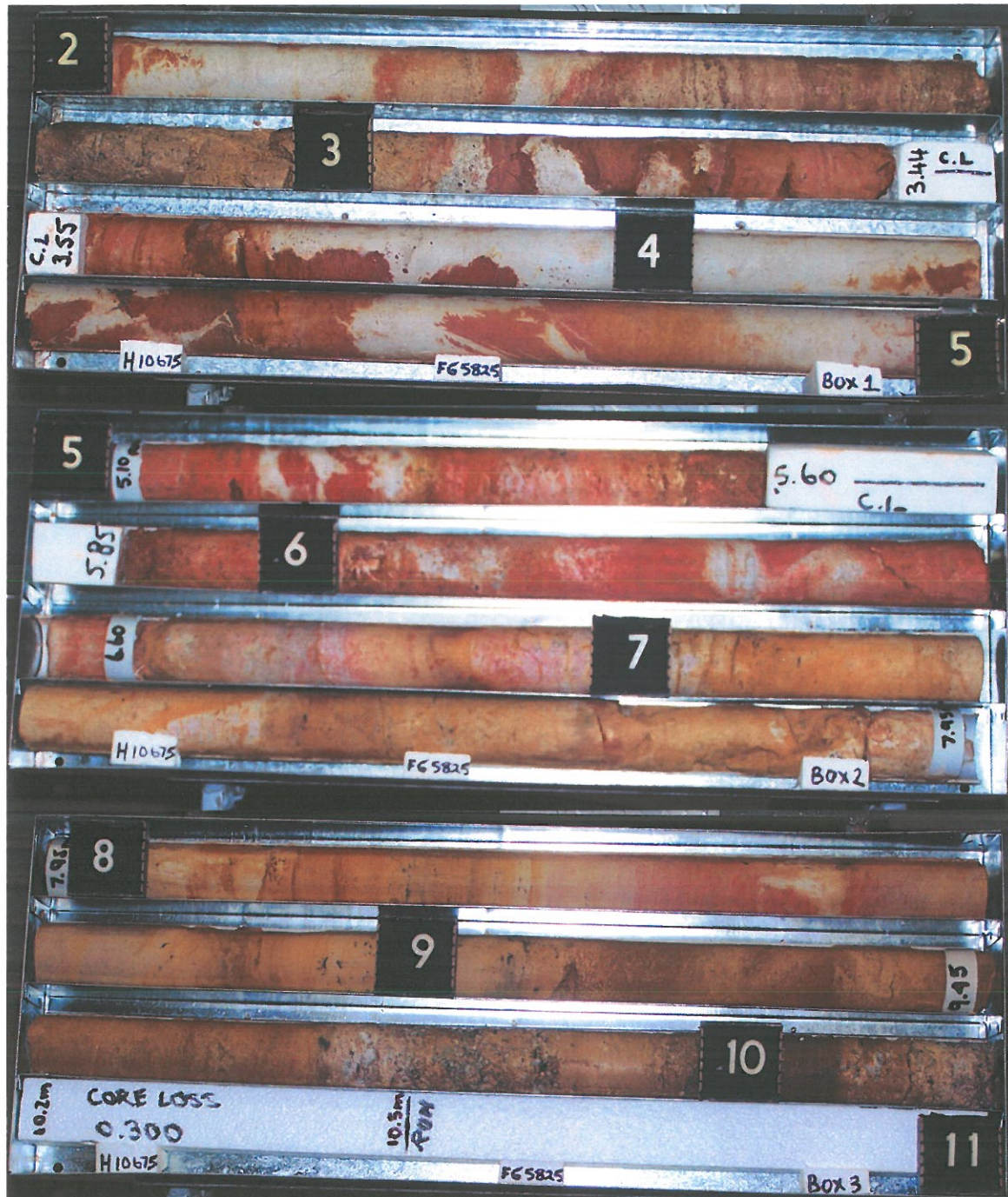
DEPTH (m)	R.L. (m)	LOGGING CASE CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	155.42											
11												
12	153.42											
13												
14	151.55											
15	150.82											
16												
17												
18												
19												
20												

REMARKS Standpipe piezometer installed at base of hole.

LOGGED BY  
MLW



Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**  
 Borehole No: **BH 105**  
 Start Depth: 2.0m  
 Finish Depth: 14.00m  
 Project No: FG5825  
 H No: 10675



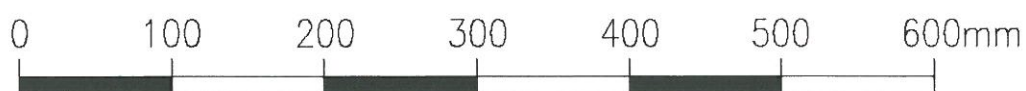
0 100 200 300 400 500 600mm

SCALE 1:5

F:GEOT043/1



Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**  
Borehole No: **BH 105**  
Start Depth: 2.0m  
Finish Depth: 14.00m  
Project No: FG5825  
H No: 10675



SCALE 1:5

F:GEOT043/1