Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH104
SHEET 1 of 2
REFERENCE No H10676

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION
LOCATION Cut 11 COORDINATES 485645.4 E; 7080849.2 N
PROJECT No FG5825 SURFACE R.L. 170.86m PLUNGE DATE STARTED 9/2/10 GRID DATUM MGA94
JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 9/2/10 DRILLER Drillsure

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
0	170.86				**Sandy CLAY** Grey to red, moist, stiff.									
				A	Traces of organics.		(CL)					3,4,6 N=10		SPT
1	169.86				**Clayey SAND** Grey to mottled red, moist, very loose.									
				B	Sand is fine to medium grained.		(SC)					2,4,4 N=8		SPT
2	168.36											Water inflow noted at 2.2m during drilling		
				C	**SILTSTONE (XW):** Generally exhibits the engineering properties of pale grey with dark orange mottling, very stiff to hard, silty Clay.							3,6,11 N=17		SPT
3			(0)		Remanent rock structure observed in parts.		XW					Clay seam, subhorizontal.		
			100											
4	166.71		(20)		**SILTSTONE (HW):** Pale yellow with dark orange mottles, fine grained, massive.									
			100											
5			(20)											
			100											
6			(40)				HW					Jt, Pl, SR, 10°, C, FeSt		
			100											
7			(100)									7.0m: Jt, 40°, Pl, C, R, FeSt Is(50) = 0.42MPa Is(50) = 0.12MPa		x o
					7.45m: Becoming slightly sandy.							WS, purple with white and brown banding. UCS= 0.7 MPa		UCS
8	162.71		100											
			(100)		**SILTSTONE (HW/MW):** Pale yellow with dark orange mottles, fine grained, massive.									
9					Defects are very widely spaced. Occasional sub-horizontal joints, possibly drilling induced. Defect surface are typically clean or iron stained.		HW-MW					Is(50) = 0.22MPa Is(50) = 0.19MPa		x o
			100											
10			(100)		9.6m: Becoming predominantly mottled dark orange.									

REMARKS Standpipe piezometer installed at base of hole.

LOGGED BY MLW

QLD_DMR_LIB_01.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5825 BRUCE HWY COOROY-CURRA SECTION A BHS.GPJ DWG71494.GDW Datgel CPT Tool gINt Add-In 20/05/2010 14:21

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BOREHOLE No BH104
SHEET 2 of 2
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DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
10	160.86				**SILTSTONE (HW/MW):** As above.							Is(50) = 0.21MPa		x
												Is(50) = 0.21MPa		o
11			100 (100)											
								HW-MW				UCS= 3.1 MPa		UCS
12												Is(50) = 0.26MPa		x
												Is(50) = 0.25MPa		o
			100 (100)											
13														
	157.36											Clay seam, subhorizontal.		
												Is(50) = 0.29MPa		x
					SILTSTONE (MW): Pale grey with occasional dark orange mottling, fine grained, massive.							Is(50) = 0.26MPa		o
14			100 (100)		Defects are very widely spaced. Occasional sub-horizontal joints, possibly drilling induced. Defect surface are typically clean.									
												Is(50) = 0.26MPa		x
15												Is(50) = 0.27MPa		o
												UCS= 1.7 MPa		UCS
			100 (100)											
16								MW						
												Is(50) = 0.20MPa		x
												Is(50) = 0.06MPa		o
17			100 (100)		From 17.2m: Becoming less sandy.									
18												Is(50) = 0.26MPa		o
	152.26		100									Is(50) = 0.28MPa		x
19					Borehole terminated at 18.6m									
20														

REMARKS Standpipe piezometer installed at base of hole.

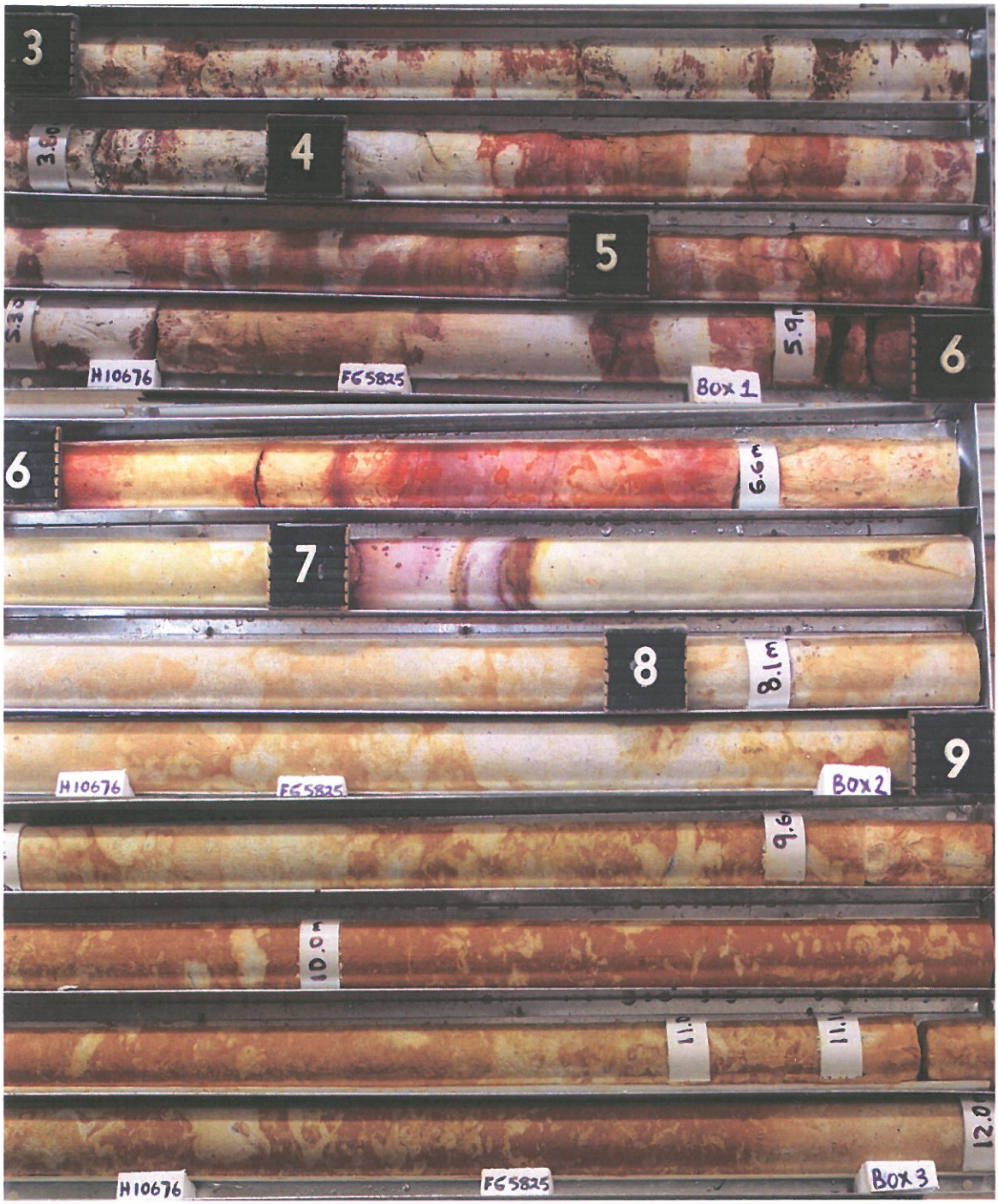
LOGGED BY MLW

QLD_DMR_LIB_01.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5825 BRUCE HWY COOROY-CURRA SECTION A BHS.GPJ DWG71494.GDW Datgel CPT Tool gINt Add-In 20/05/2010 14:21

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

Borehole No: **BH 104**

Start Depth: 3.00m
Finish Depth: 18.60m
Project No: FG5825
H No: 10676



0 100 200 300 400 500 600mm

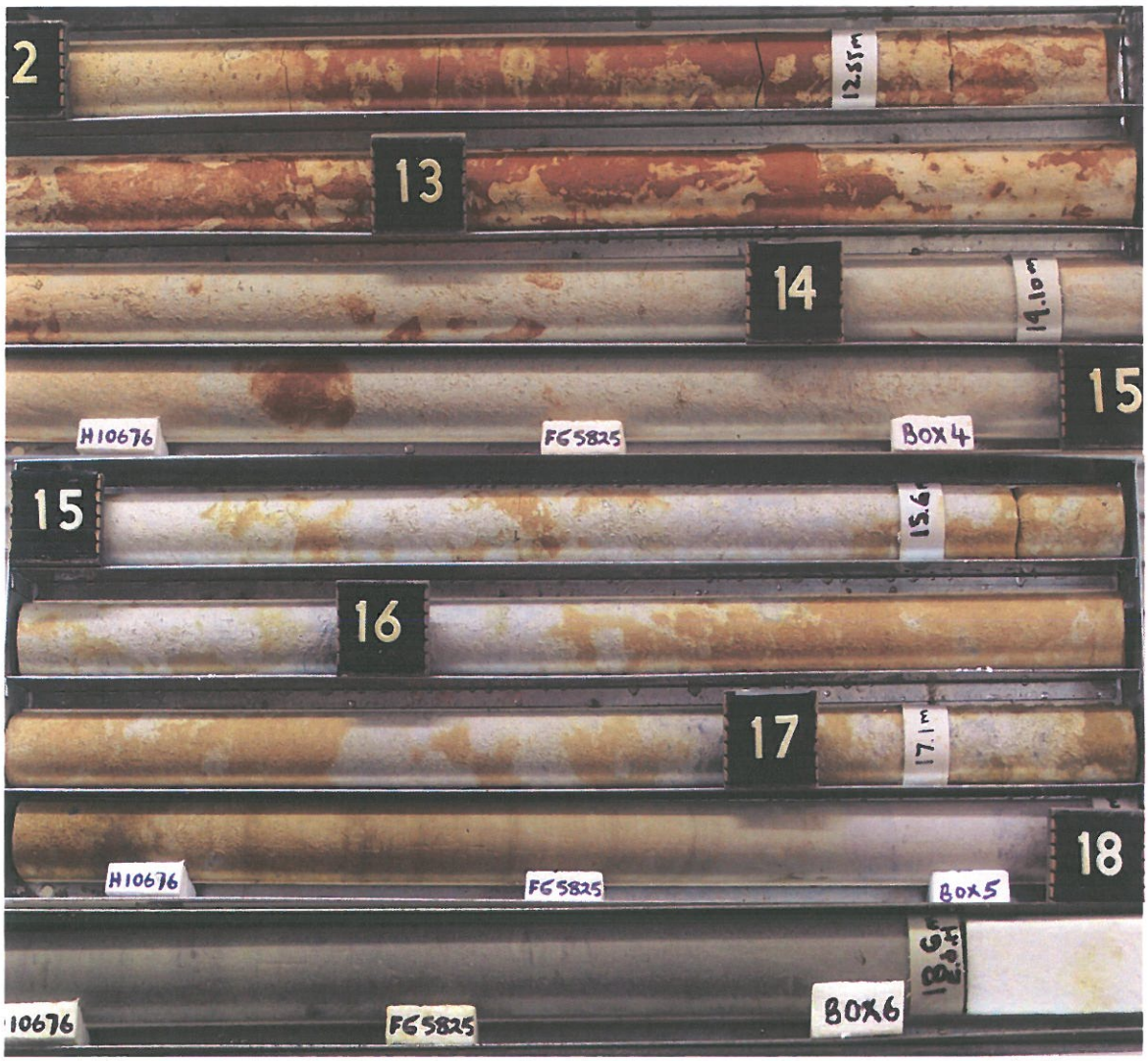
SCALE 1:5

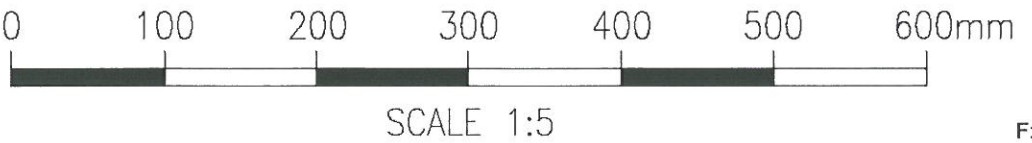
F:GEOT043/1

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

Borehole No: **BH 104**

Start Depth: 3.00m
Finish Depth: 18.60m
Project No: FG5825
H No: 10676





SCALE 1:5

F:GEOT043/1