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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 BH110

SHEET 1 of 2

REFERENCE No H10655

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

LOCATION Embankment 10

COORDINATES 486339.0 E; 7080777.8 N

PROJECT No FG5825 SURFACE R.L. 139.13m PLUNGE DATE STARTED 28/1/10 GRID DATUM MGA94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 28/1/10 DRILLER R & D Drilling

DEPTH (m)	R.L. (m)	AUGER CASING 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
0	139.13					SILT Light brown, dry.							
1	138.63				A	Gravelly SILT Mottled red to pale grey, moist, stiff. XW/HW rock fragments throughout.	(ML)					4,5,6 N=11	SPT
					B		(GM)					5,5,6 N=11	SPT
2	137.13				C	PHYLLITE (XW) Generally exhibits engineering properties of mottled red to light grey, moist, very stiff gravelly Silt.	XW					6,12,12 N=24	SPT
3	136.63		(0)			PHYLLITE (HW) Mottled red, fine grained, foliated in parts. Foliation is indistinct.	HW						
4	135.70		(0)			PHYLLITE (MW) Mottled red, fine grained, foliated. Foliation is indistinct and dips at 10°. Defects are generally closely spaced. Prominent defect set with foliation. Defect surfaces are thickly clay infilled.	MW						
5			(0)									Clayey HW zone	
6			(0)									Clayey HW zone	
7	131.90		(0)									Clayey HW zone	
8			(13)			PHYLLITE (HW) Brown, fine grained, foliated. Foliation is indistinct. Clay seams and quartz veins throughout. Brecciated in parts.	HW					Quartz vein	
9			(0)									Crushed QZ vein	
10			(0)										

REMARKS Minor water loss throughout hole

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

LOCATION Embankment 10 COORDINATES 486339.0 E; 7080777.8 N

PROJECT No FG5825 SURFACE R.L. 139.13m PLUNGE _____ DATE STARTED 28/1/10 GRID DATUM MGA94

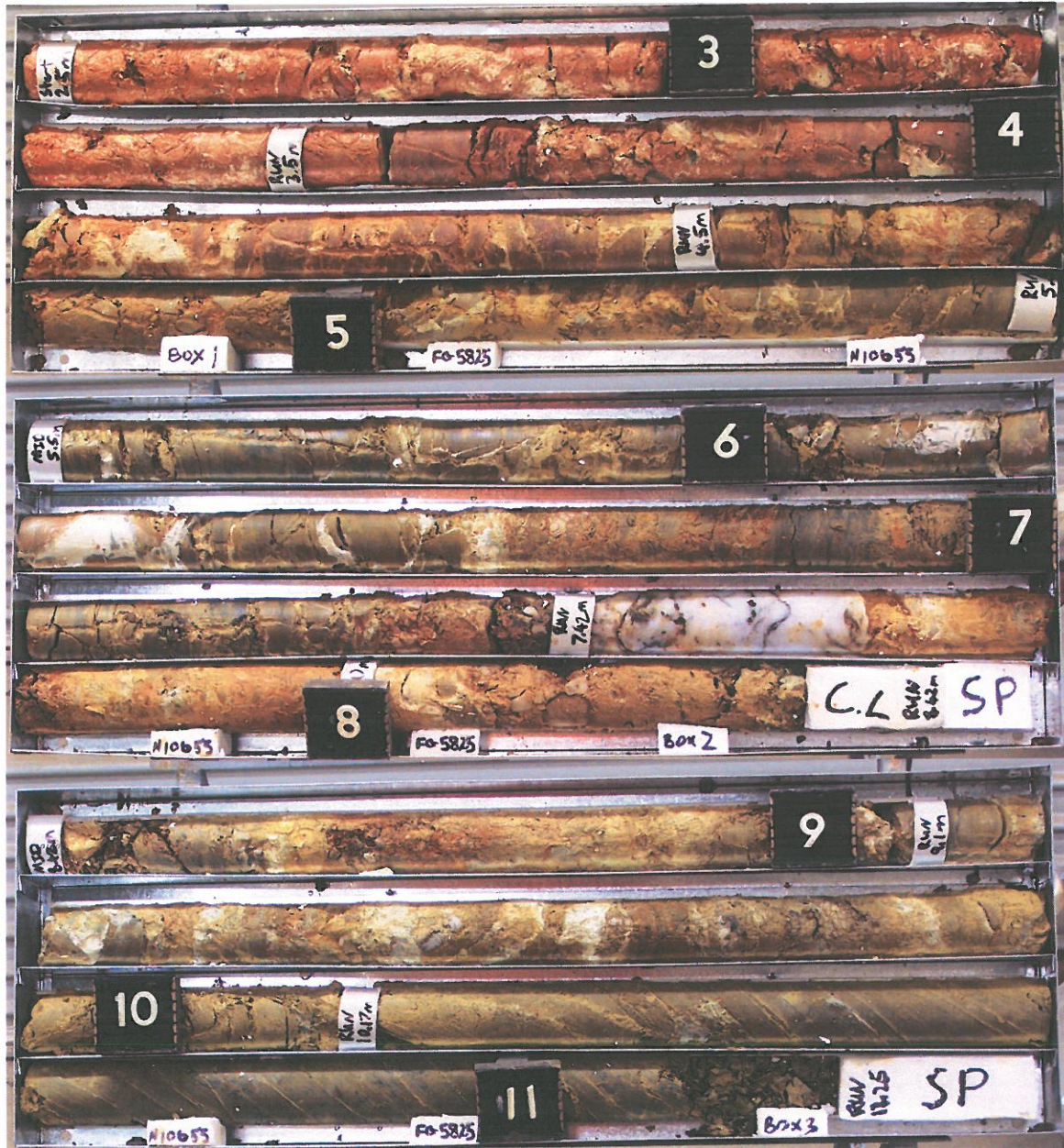
JOB No 128/10A/901 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 28/1/10 DRILLER R & D Drilling

DEPTH (m)	R.L. (m)	AUGER Casing Wash Boring Core Drilling	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (kPa)	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
10	129.13					PHYLLITE (HW) (Cont'd)			HW						
	128.83		100	(0)		PHYLLITE (MW) Dark grey with distinctive brown mottling, fine grained, foliated. Foliation dips at ~30°.									
11			100	(0)		Defects are generally closely spaced. Prominent defect set dipping with foliation. Defect surfaces are typically clay infilled.									
12			100	(0)		11.91m: Distinct change in colour to dark grey; foliation becomes highly disturbed and subvertical.									
			100	(0)											
13			100	(15)				MW							
	125.33					BRECCIA (HW) Dark grey, fine grained, highly fractured. Occasional quartz veining.									
14			100	(0)											
15															
16	123.03		100			Borehole terminated at 16.1m									
17															
18															
19															
20															

REMARKS Minor water loss throughout hole

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Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
 Borehole No: **BH 110**
 Start Depth: 2.50m
 Finish Depth: 16.1m
 Project No: FG5825
 H No: 10655

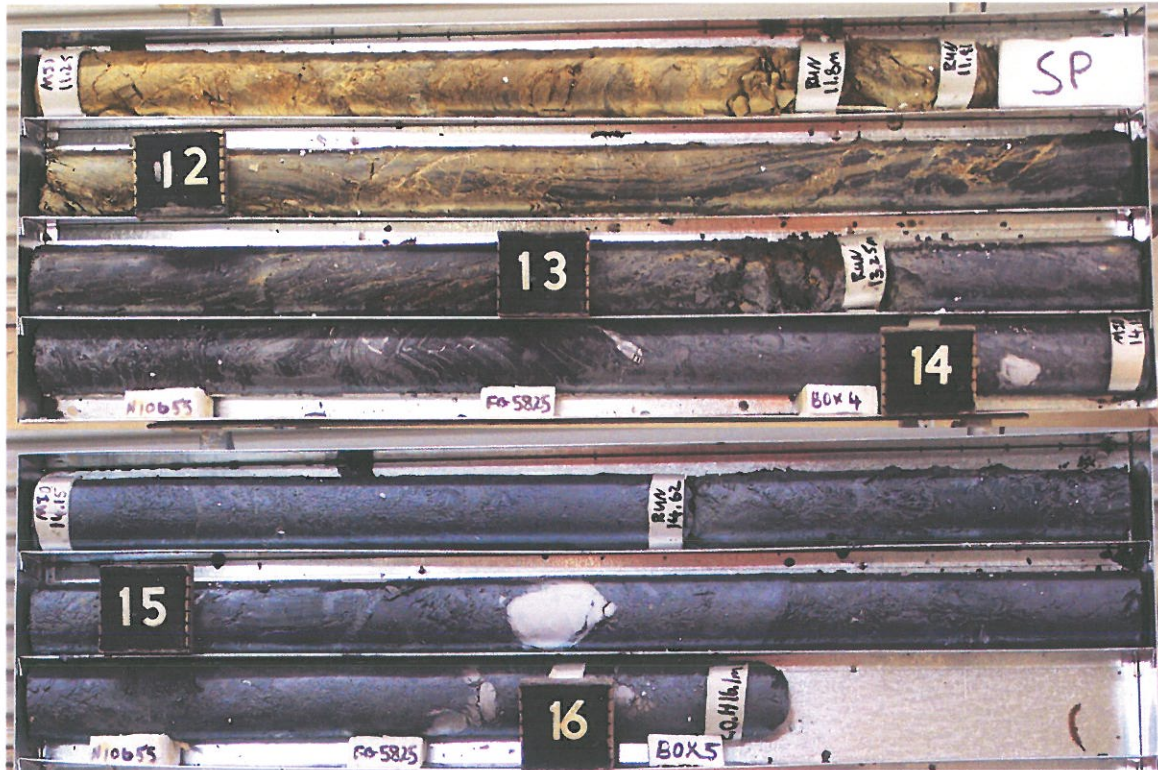


0 100 200 300 400 500 600mm

SCALE 1:5

F:GEOT043/1

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
Borehole No: **BH 110**
Start Depth: 2.50m
Finish Depth: 16.1m
Project No: FG5825
H No: 10655



SCALE 1:5

F:GEOT043/1