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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH087

SHEET 2 of 3

REFERENCE No H10715

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

LOCATION Six Mile Creek COORDINATES 489379.2 E; 7078102.5 N

PROJECT No FG5825 SURFACE R.L. 108.92m PLUNGE DATE STARTED 06/04/10 GRID DATUM MGA94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 06/04/10 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	
									1	2	3	4	5					
10	98.92					SANDSTONE (MW): (cont'd)	MW											
	98.77			100		SANDSTONE (HW/MW): Grey to Dark grey, medium grained, laminated, low strength. 10.5-10.8m: Contains thinly laminations of black carbonaceous material. Defect spacing is generally close to medium. Prominant defect set is bedding partings dipping at ~5°, very widely spaced joint set dipping at 50°. Defect surfaces are generally clean.	HW-MW								- becoming coarse grained			
	96.72			100		SANDSTONE (MW): Yellow brown to grey, fine grained, very thickly bedded, mainly low to medium strength. Defect spacing is generally wide. Prominant defect set is bedding partings dipping at ~5°, very widely spaced joint set dipping at 45°. Defect surfaces are generally clean.	MW									UCS = 3.20 MPa	UCS	
				100												Is(50) = 0.09MPa Is(50) = 0.14MPa	o x	
				100												UCS = 1.69 MPa	UCS	
				100												-Jt @ 45°X 4, ST, Pl, C, O		
				85												Medium grained Sandstone		
																HW		
																Core loss possible XW layer or fractured zone		
	90.62			10		CONGLOMERATE (MW): Mottled grey brown, fine to coarse grained, massive, mainly low strength.										XW		
				100		Defect spacing is generally medium to wide. Defect surfaces are irregular, rough, clean and open.	MW										Is(50) = 0.08MPa Is(50) = 0.03MPa	x o
	89.42					SANDSTONE (MW): Mottled grey, coarse grained, bedded, low strength.	MW										UCS = 0.25 MPa	UCS
				100												- Bedding partings @ 5°		

REMARKS _____

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**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 0177/5-2009

BOREHOLE No BH087

SHEET 3 of 3

REFERENCE No H10715

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

LOCATION Six Mile Creek COORDINATES 489379.2 E; 7078102.5 N

PROJECT No FG5825 SURFACE R.L. 108.92m PLUNGE _____ DATE STARTED 06/04/10 GRID DATUM MGA94

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OLD_DMR_LIB_01.GLB Log A. ENGINEERING BOREHOLE LOG W/ LITHOLOGY FG5825 BRUCE HWY COOROY-CURRA SECTION A BHS.GPJ <<DrawingFiles>> Datagel CPT Tool gINk Add-In 31/05/2010 09:51

DEPTH (m)	R.L. (m)	ALUGER 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
									EL	VL	EL	VL	EL	VL				
20	88.92					Defects as above. SANDSTONE (MW):(Contd)												
	88.72					MUDSTONE (MW): Pale grey to mottled red brown, thickly bedded, mainly low strength.	MW										- Jt @ 75°, Pl, S, C, Ci	
21			100			Defect spacing is generally medium to wide. Defect surfaces are planar, smooth, open, clean or sand and gravel infilled.												
22			100			Iron stained in parts; displays cracking upon drying.	MW										UCS = 0.23 MPa Is(50) = 0.05MPa	UCS x
23			100														- Jt @ 45°, Pl, S, O with sand and gravel infilled.	
24	84.52																- Jt @ 45° Pl, S, O, C.	
	84.12		100			SANDSTONE (MW): Pale grey, fine grained, low to medium strength.	MW										Is(50) = 0.43MPa Is(50) = 0.12MPa UCS = 5.89 MPa	x UCS
25						Borehole terminated at 24.8m												
26																		
27																		
28																		
29																		
30																		

REMARKS _____

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

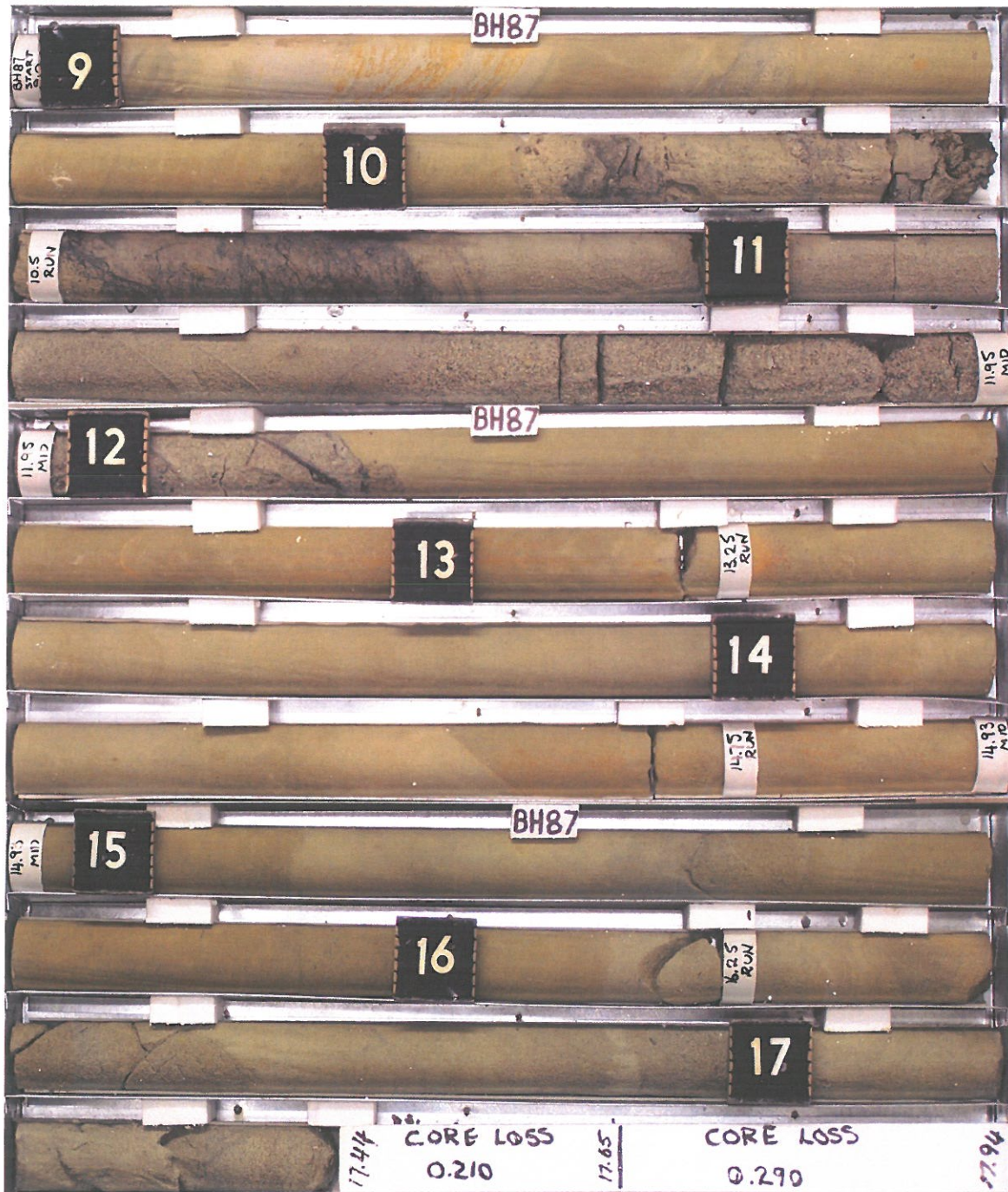
Borehole No: **BH 87**

Start Depth: 9.00m

Finish Depth: 24.71m

Project No: FG5825

H No: 10715



SCALE 1:5

F:GEOT043/1

Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
Borehole No: **BH 87**
Start Depth: 9.00m
Finish Depth: 24.71m
Project No: FG5825
H No: 10715



SCALE 1:5

F:GEOT043/1