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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 BH028

SHEET 1 of 2

REFERENCE No H10597

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

LOCATION Cut 11 COORDINATES 485653.5 E; 7080898.0 N

PROJECT No FG5825 SURFACE R.L. 172.18m PLUNGE DATE STARTED 10/8/09 GRID DATUM MGA94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 11/8/09 DRILLER R & D Drilling

DEPTH (m)	R.L. (m)	AUGER 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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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0	172.18					Clayey SILT Pale brown with minor mottled red iron staining, moist, firm to stiff.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

REMARKS Detailed defect descriptions are shown on Form GEOT533/8 attached. Standpipe piezometer installed.

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH028
SHEET 2 of 2
REFERENCE No H10597

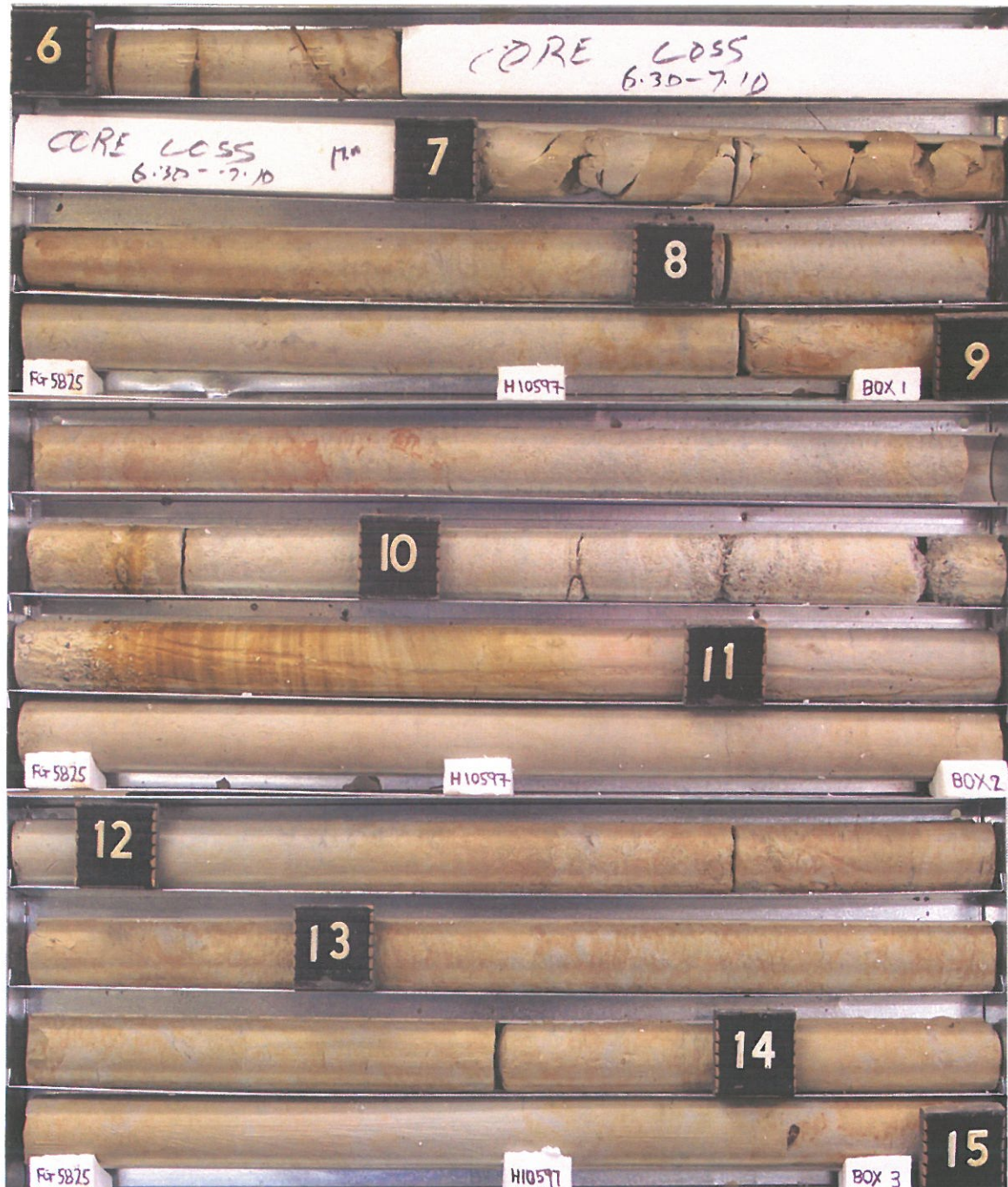
PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION
LOCATION Cut 11 COORDINATES 485653.5 E: 7080898.0 N
PROJECT No FG5825 SURFACE R.L. 172.18m PLUNGE _____ DATE STARTED 10/8/09 GRID DATUM MGA94
JOB No 128/10A/901 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 11/8/09 DRILLER R & D Drilling

DEPTH (m)	R.L. (m)	AUGER 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
10	162.18		(94)			SILTSTONE (MW): (Cont'd)						Is(50) = 0.16MPa Is(50) = 0.11MPa	x o
11			100 (100)									Is(50) = 0.26MPa Is(50) = 0.20MPa	x o
12						Detailed defect descriptions are shown on Form GEOT533/8 attached.						Is(50) = 0.08MPa Is(50) = 0.28MPa Is(50) = 0.14MPa Is(50) = 0.19MPa	x o x o
13			100 (100)									Is(50) = 0.15MPa Is(50) = 0.17MPa	x o
14			100 (97)									Is(50) = 0.25MPa Is(50) = 0.29MPa	x o
15	157.18		100			14.73 - 15.00m: Becoming sandy.							
16						Borehole terminated at 15m							
17													
18													
19													
20													

REMARKS Detailed defect descriptions are shown on Form GEOT533/8 attached. Standpipe piezometer installed.

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Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**
Borehole No: **BH28**
Start Depth: 6.00m
Finish Depth: 15.00m
Project No: FG5825
H No: 10597



SCALE 1:5

F:GEOT043/1

DEFECT DESCRIPTIONS OF ENGINEERING BORELOGS

[CHARACTERISATION OF DEFECTS ARE IN ACCORDANCE WITH
ISRM SUGGESTED METHODS (1981)]

BOREHOLE NO.:	BH28
SHEET:	1 of 1
REFERENCE NO.:	H10597

PROJECT: Bruce Highway (Cooroy – Curra) Section A Geotechnical Investigation

LOCATION: Cut 11

PROJECT NO.: FG5825

SURFACE R.L.: 172.18

DRILLER: R & D Drilling

JOB NO.: 128/10A/901

DATUM: MGA94

DATE DRILLED: 10/08/09

[illegible]

Abbreviations (as per F: GEOT 017/5 – 2009)

Abbreviations (as per I.S. 6973 - 2007)							
ROUGHNESS		WALL ALTERATIONS		TYPE		OTHER	
R	Rough	FeSt	Iron Stained	J, Js	Joint, Joints	Cln	Clay Infill
Sr	Slightly Rough	W	Weathered	B	Bedding	CLy	Clayey
S	Smooth	Smn	Secondary Mineralisation	BP	Bedding Parting	Co	Coal Seam
SL	Slickensided	Cn	Clean	FP	Foliation Parting	Carb	Carbonaceous
PO	Polished	MnSt	Manganese Stained	LP	Lamination Parting	SI	Sand Infill
PLANARITY		APERTURE		CLV	Cleavage	QZ	Quartz
PI	Planar	C	Closed	Fr	Fracture	CA	Calcite
St	Stepped	O	Open	SZ	Sheared Zone	Chl	Chlorite
Un	Undulating	F	Filled	CZ	Crushed Zone	In	Incipient
Cu	Curved	T	Tight	BZ	Broken Zone	Int	Intersecting
Ir	Irregular			HFZ	Highly Fractured Zone	Lam (s)	Lamination (s)
				WS	Weathered Seam	Di	Drilling Induced
				Vn	Vein	H	Horizontal
						V	Vertical

NOTE: This sheet should be read in conjunction with appropriate Engineering Borelog. Defect angles were measured with respect to horizontal plane.