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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 BH072

SHEET 1 of 2

REFERENCE No H10735

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

LOCATION Cut 10A - Northern Interchange Roundabout COORDINATES 486963.0 E; 7080673.4 N

PROJECT No FG5825 SURFACE R.L. 131.54m PLUNGE DATE STARTED 28/5/10 GRID DATUM MGA94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING DATE COMPLETED 28/5/10 DRILLER R & D Drilling

DEPTH (m)	R.L. (m)	AUGER CASING ROCK ROLLER 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	131.54					Gravelly CLAY (Colluvial) Red to brown, moist, firm, high plasticity, gravel up to 10mm. 0.6m: Colour change to light brown.	(CH)						
1	130.54				A	Gravelly SILT (Residual?) Grey, moist, firm to stiff, low to intermediate plasticity. Sub-rounded to sub-angular gravel throughout up to 10mm.	(ML)					2,3,5 N=8	SPT
2	129.54				B	PHYLLITE (XW): Generally exhibits the engineering properties of brown, moist, hard, gravelly silt of low plasticity. Rock fabric visible throughout.	(XW)					13,19,21 N=40	SPT
3					C	From 2.6m: Quartz veins resembling gravel throughout.						13,19,21 N=40	SPT
4					D						Hard QZ band	14,16,23 N=39	SPT
5					E							18,16,12 N=28	SPT
6	125.54				F	PHYLLITE (HW): Generally exhibits the engineering properties of brown to grey, moist, hard, gravelly silt of low plasticity. Rock fabric visible throughout; occasional grey clay bands; quartz gravel throughout.	(HW)					16,23,30/110mm N>50	SPT
7					G							20,29,30/60mm N>50	SPT
8	123.54				H	ANDESITE (MW): Dark grey with mottled orange iron staining, fine grained, massive. Infilled vesicles throughout.	(MW)					30/90mm N>50	SPT
9						Defect spacing is close to medium. Defect set at 10°. Defects are open or closed and iron stained.							
10													

REMARKS

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH072
SHEET 2 of 2
REFERENCE No H10735

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION
LOCATION Cut 10A - Northern Interchange Roundabout COORDINATES 486963.0 E; 7080673.4 N
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QLD_DIMR_LIB_01.GLB Log A: ENGINEERING BOREHOLE LOG W/LITHOLOGY FG5825 BRUCE HWY COOROY CURRA SECTION A.BHS.GPJ DWG58342.GDW Date: 22/06/2010 10:42

DEPTH (m)	R.L. (m)	AUGER CASING ROCK ROLLER 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
									EH	VT	M	J	VL				
10	121.54					ANDESITE (MW) (CONT'D):		MW							Is(50) = 0.12MPa Is(50) = 0.15MPa	x o	
11	120.93		100			ANDESITE (SW): Grey with white flecks, fine grained, massive. Defect spacing is medium to wide. Defects at ~10° and are open or closed and iron stained.		SW						BZ	Is(50) = 1.40MPa Is(50) = 0.95MPa	x o	
12	119.15		100			PHYLLITE (MW): Dark grey, fine grained, foliated. Highly fractured / sheared; clayey broken zones throughout.		MW						SZ			
13	118.36		97			Borehole terminated at 13.18m											
14																	
15																	
16																	
17																	
18																	
19																	
20																	

REMARKS _____

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

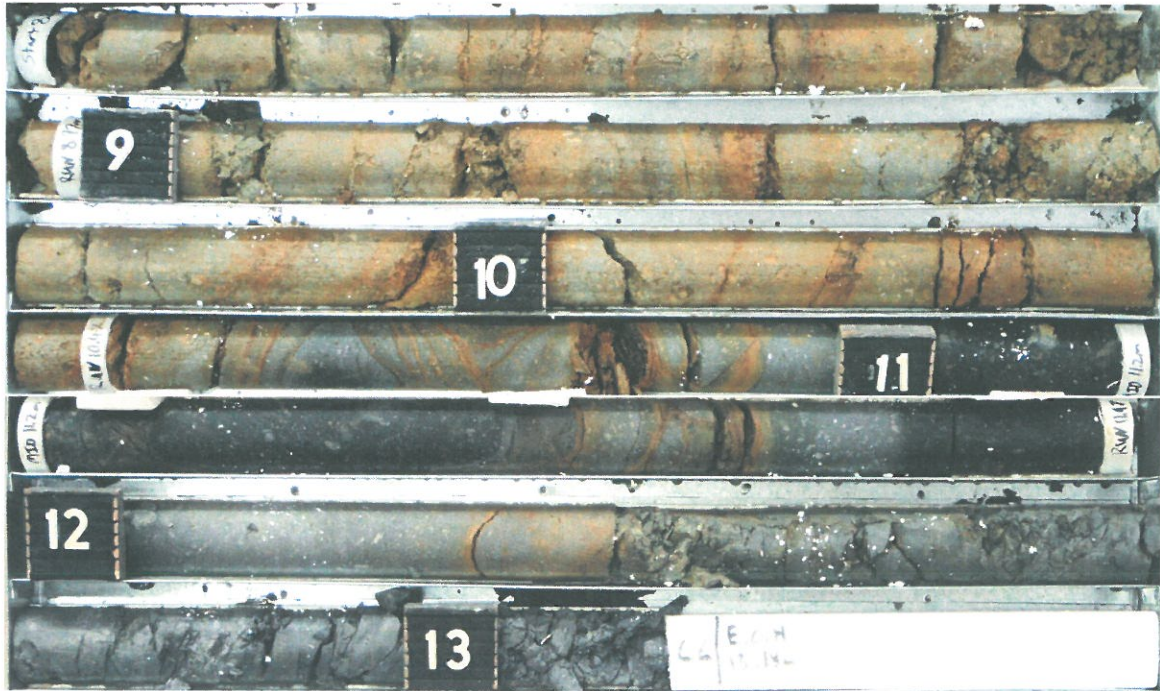
Borehole No: **BH 72**

Start Depth: 8.20m

Finish Depth: 13.18m

Project No: FG5825

H No: 10735



SCALE 1:5

F:GEOT043/1