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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH049  
SHEET 1 of 2  
REFERENCE No H10607

PROJECT BRUCE HIGHWAY (COOROY - CURRA) SECTION A GEOTECHNICAL INVESTIGATION  
LOCATION Embankment 14 COORDINATES 483793.6 E; 7081354.8 N  
PROJECT No FG5825 SURFACE R.L. 107.58m PLUNGE \_\_\_\_\_ DATE STARTED 14/8/09 GRID DATUM MG94  
JOB No 128/10A/901 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 14/8/09 DRILLER R & D Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	107.58											
1				A	Gravelly Clayey SILT (Colluvium) Mottled red-brown, HW phyllite gravels (<30mm) throughout. Very stiff, low to intermediate plasticity.						7,9,11 N=20	SPT
2				B		(ML-MI)					7,9,14 N=23	SPT
3				C							8,11,16 N=27	SPT
4	104.38			D	PHYLLITE (XW) Generally exhibits the engineering properties of pale grey to brown, moist, hard, silty CLAY of intermediate plasticity. Rock fabric visible throughout.	XW					9,11,19 N=30	SPT
5	103.08			E	PHYLLITE (HW) Generally exhibits the engineering properties of pale grey to brown, moist, hard, clayey SILT and silty CLAY of intermediate to high plasticity. Rock fabric visible throughout.	HW					12,30/80 N>50	SPT
6				F							30/90 N>50	SPT
7	100.58			G	Detailed defect description shown on Form GEOT533/8 attached.						27,30/100 N>50	SPT
8			(0)		PHYLLITE (MW) Grey to pale brown, fine grained, foliated. Occasional clay seams. Foliations vary from 30° steepening to 70° with depth. Defects are generally close to medium spaced. Defects typically dipping parallel to foliation and at 40°. Defect surfaces typically clay infilled or iron stained.	MW					Is(50) = 0.25MPa Is(50) = 0.41MPa	x o
9	99.08		100 (60)		PHYLLITE (MW/SW) Pale grey to brown with dark grey interbeds, fine grained. Strongly foliated. Foliations typically dipping at 70°. Defects generally medium spacing. Defects typically dipping at 10° and 45°.	MW-SW					HW clayey zone HW clay seam HW clay zone Fell out of core barrel; left down BH. Fell out of core barrel; left down BH.	
10			100									

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

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**Queensland  
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Department of  
**Main Roads**

# ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND  
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BOREHOLE No BH049

SHEET 2 of 2

REFERENCE No H10607

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

LOCATION Embankment 14 COORDINATES 483793.6 E; 7081354.8 N

PROJECT No FG5825 SURFACE R.L. 107.58m PLUNGE \_\_\_\_\_ DATE STARTED 14/8/09 GRID DATUM MGA94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 14/8/09 DRILLER R & D Drilling

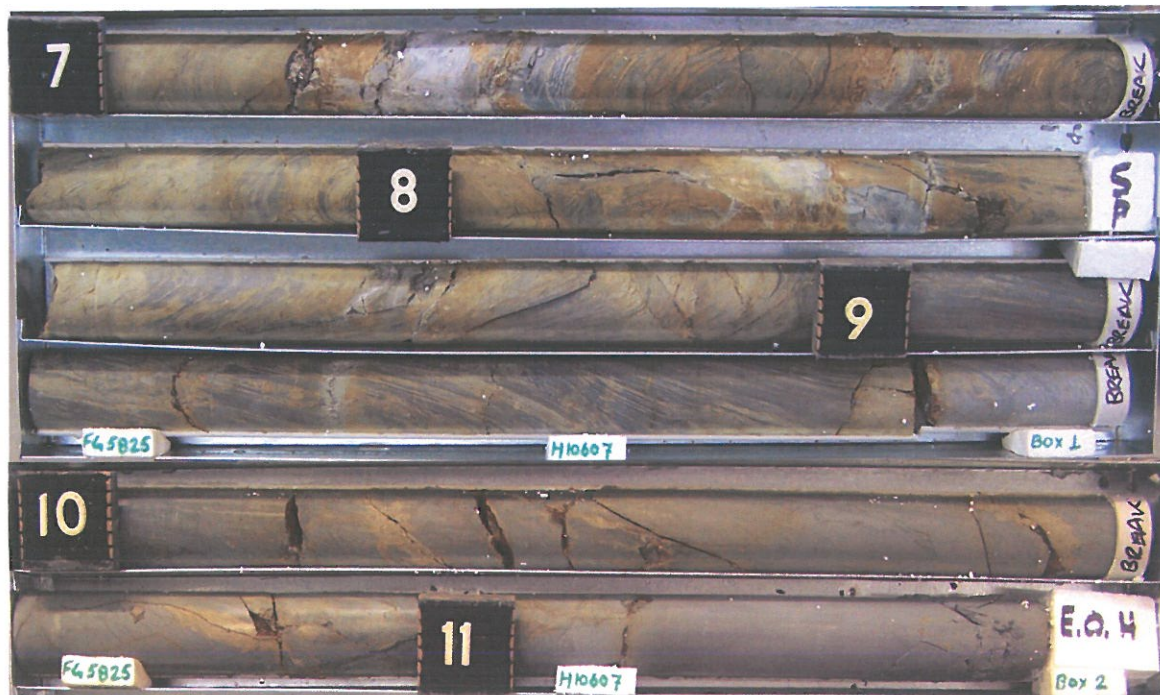
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH MPa	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	97.58		(40)		PHYLLITE (MW/SW) (Cont'd) Defect planes iron stained or clay infilled. 10.1 - 10.9m Foliations very weak / absent over large sections.	MW-SW						
11	96.19		100		Borehole terminated at 11.39m							
12												
13												
14												
15												
16												
17												
18												
19												
20												

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

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Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**  
Borehole No: **BH49**  
Start Depth: 7.00m  
Finish Depth: 11.39m  
Project No: FG5825  
H No: 10607



SCALE 1:5

F:GEOT043/1