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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 BH064

SHEET 1 of 2

REFERENCE No H10593

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

LOCATION Embankment 14 COORDINATES 483699.9 E; 7081323.8 N

PROJECT No FG5825 SURFACE R.L. 103.99m PLUNGE \_\_\_\_\_ DATE STARTED 15/9/09 GRID DATUM MGA94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 15/9/09 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	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	103.99					Gravelly SILT (Colluvial? / Alluvial?) Brown, moist, stiff.							
1					A	Intermediate plasticity, angular quartz gravels throughout up to 10mm.						3,5,5 N=10	SPT
2	102.49				B	Silty CLAY (Alluvial?) Brown to grey, moist, very stiff. High plasticity.						5,8,9 N=17	SPT
3	101.49				C	Sandy CLAY (Alluvial?) Light brown to grey, moist, very stiff to hard.						7,13,17 N=30	SPT
4					D	Intermediate to high plasticity. Sand is typically fine grained, black manganese stained layers up to 10mm, orange iron staining in parts.						7,12,14 N=26	SPT
5					E							7,12,17 N=29	SPT
6					F							7,11,12 N=23	SPT
7					G						▽ 7/10/09	7,12,14 N=26	SPT
8					H							7,13,17 N=30	SPT
9	95.49				J	PHYLLITE (HW) Generally exhibits the engineering properties of brown, moist to wet, hard, gravelly clay of high plasticity. Large gravels up to 30mm.	HW					14,10,30/95 N>50	SPT
10	94.99			(0)	(MW)	Dark green-brown, fine to very fine grained.	MW					Fault zone of clay, crushed rock and quartz veins Quartz vein	
10	93.99			100	(See over)								

REMARKS Standpipe piezometer at base of hole.

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JA



# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH064

SHEET 2 of 2

REFERENCE No H10593

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

LOCATION Embankment 14 COORDINATES 483699.9 E; 7081323.8 N

PROJECT No FG5825 SURFACE R.L. 103.99m PLUNGE          DATE STARTED 15/9/09 GRID DATUM MGA94

JOB No 128/10A/901 HEIGHT DATUM AHD BEARING          DATE COMPLETED 15/9/09 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						DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
									EH	VH	HM	JL	EL					
10	93.99					PHYLLITE (MW) (Cont'd)		MW										
	93.33			100 (0)		(MW / SW) Change in strength and weathering. Colour change to pale grey.		MW-SW									Quartz vein Is(50) = 0.12MPa BZ BZ Clay lenses (4mm wide) closely spread Is(50) = 0.23MPa	x
	92.66					Defects typically dip at 25° and iron stained, planar.		HW									Quartz vein	x
	92.59					(HW)		MW-SW										
12	91.99			96		(MW/SW)												
						Borehole terminated at 12m												
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

REMARKS Standpipe piezometer at base of hole.

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Project: **Bruce Highway Upgrade (Cooroy – Curra) Section A**  
Borehole No: **BH64**  
Start Depth: 9.00m  
Finish Depth: 11.95m  
Project No: FG5825  
H No: 10593



SCALE 1:5

F:GEOT043/1