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**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/2-2004

BOREHOLE No BH101

SHEET 2 of 4

REFERENCE No H9410

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION

LOCATION CONTROL LINE: MCAO - Ch. 18115.5 - OFFSET 38.4 R COORDINATES 9788.3 E; 168773.4 N

PROJECT No FG5389 SURFACE R.L. 3.30 DATE STARTED 4/8/04 DATUM SETP

JOB No _____ DATUM AHD DATE COMPLETED 5/8/04 DRILLER R & D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	ALGER CASING WASH BORING CORE DRILLING	ROD () % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	HT	VM	HM	JVL				
10	-6.70				SILTY CLAY - ALLUVIUM Grey to green grey, moist, very stiff. Some MnO2 concretions.	CL									5,7,10 N=17	SPT
11	-8.00				SAND - ALLUVIUM Pale brown to orange brown, wet, medium dense. Fine grained sand, minor silt fraction in the upper area.	SP									6,8,11 N=19	SPT
12															10,13,15 N=28	SPT
13																
14																
15															4,9,7 N=16	SPT
16															5,6,11 N=17	SPT
17																
18	-14.10				SILTY CLAY - ALLUVIUM Pale grey to grey, moist, stiff to very stiff.	CI									6,9,12 N=21	SPT
19					Becoming fine sandy below 19.30m.											
20	-16.70														4,6,8 N=14	SPT

REMARKS SPT values in gravelly clayey sand alluvium can overestimate density due to influence of coarser size gravel particles.
Defect angles have been measured with respect to a horizontal plane.

LOGGED BY
D.Dobe & A.Dissanayake



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BOREHOLE No BH101

SHEET 4 of 4

REFERENCE No H9410

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION

LOCATION CONTROL LINE: MCAO - Ch. 18115.5 - OFFSET 38.4 R

COORDINATES 9788.3 E; 168773.4 N

PROJECT No FG5389

SURFACE R.L. 3.30

DATE STARTED 4/8/04

DATUM SETP

JOB No _____

DATUM AHD

DATE COMPLETED 5/8/04

DRILLER R & D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	ROD () % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH				DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
									BT	VI	IN	UL				
30	-26.70				SW (As above)											
31			99 (73)											Mudstone bed		
32														Mudstone bed		
33	-29.70		99											Sandstone bed	Is(50)=1.19 MPa Is(50)=1.87 MPa	o x
33															Is(50)=1.30 MPa Is(50)=0.50 MPa	o x
33					Borehole terminated at 33m									Core lost in the hole		
34																
35																
36																
37																
38																
39																
40																

REMARKS SPT values in gravelly clayey sand alluvium can overestimate density due to influence of coarser size gravel particles.

Defect angles have been measured with respect to a horizontal plane.

LOGGED BY
D.Dobe & A.Dissanayake

Project: **Gateway Upgrade Project Geotechnical Investigation**

Borehole No: **BH 101**

Start Depth: 26.00m

Finish Depth: 32.86m

Project No: FM2055

H No: 9410

