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ENGINEERING BOREHOLE

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

BOREHOLE No BH133
SHEET 1 of 2
REFERENCE No H9442

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION
LOCATION CONTROL LINE: MCAO - Ch. 23724.8 - OFFSET 47.0 R COORDINATES 9551.3 E; 173944.7 N
PROJECT No FM2055 SURFACE R.L. 2.31 DATE STARTED 16/8/04 DATUM SETP
JOB No DATUM AHD DATE COMPLETED 16/8/04 DRILLER R&D DRILLING PTY LTD

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	2.31													
	1.81					SILTY CLAY - TOPSOIL Brown, moist, firm.		CI				Driller's record only		
						RESIDUAL SILTY SAND Orange brown, moist, loose to mainly medium dense.		SM					3,5,7 N=12	
	0.56					Some relic rock structures.							SPT	
						SANDSTONE FINE TO MEDIUM GRAINED, LAMINATED, POORLY CEMENTED, SEDIMENTARY ROCK.								
						XW : Generally exhibits engineering properties of orange brown to pale grey, dry, medium dense to dense, silty sand.		XW				▽ 6/10/04 ▽ 7/9/04	8,14,21 N=35	
													SPT	
													8,13,14 N=27	
													SPT	
	-2.69					HW : Generally exhibits engineering properties of orange brown to pale brown, dry, very dense, silty sand, gradually grading into very low to low strength rock.		HW					12,19,30/130 N>50	
													SPT	
													17,23,30/120 N>50	
													SPT	
	-5.19				(100)	MW : White to orange, mainly massive to slightly laminated, mainly very low strength.		MW					Is(50)=0.02 MPa Is(50)=0.05 MPa Is(50)=0.04 MPa Is(50)=0.05 MPa Is(50)=0.04 MPa Is(50)=0.05 MPa	o x o x o x
	-6.49				100	Defects - Generally rare.								
					(100)	SILTSTONE MW : Orange, thinly laminated, very low strength.		MW					Is(50)=0.03 MPa Is(50)=0.01 MPa	o x
	-7.01					Defects : - Lamination partings 30-40deg (1-3/m).		SW						
	-7.69					SW : (See next page)								

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

LOGGED BY
B.Woodgate & A.Dissanayake



**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH133

SHEET 2 of 2

REFERENCE No H9442

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION

LOCATION CONTROL LINE: MCAO - Ch. 23724.8 - OFFSET 47.0 R COORDINATES 9551.3 E; 173944.7 N

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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
10	-7.69														
11			100 (100)			SW : Dark grey to blue grey, thinly laminated, very low to low strength. Highly fissile and friable with lossening moisture, easily breakable clay lamination partings. Defects - Generally rare. - Occasional drilling induced lamination partings 30-40deg (1-2/m). - Joints @ 70deg (1/2m).			SW				Is(50)=0.07 MPa Is(50)=0.14 MPa Is(50)=0.08 MPa Is(50)=0.14 MPa Is(50)=0.22 MPa Is(50)=0.06 MPa	o x o x o x	
12	-10.19		100			Borehole terminated at 12.5m									
13															
14															
15															
16															
17															
18															
19															
20															

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

LOGGED BY
B.Woodgate & A.Dissanayake

Project: **Gateway Upgrade Project Geotechnical Investigation**

Borehole No: **BH 133**

Start Depth: 7.50m

Finish Depth: 12.50m

Project No: FM2055

H No: 9442

