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ENGINEERING BOREHOLE

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

BOREHOLE No BH131

SHEET 1 of 2

REFERENCE No H9440

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION

LOCATION CONTROL LINE: MCWO - Ch. 416.4 - OFFSET 2.2 R COORDINATES 9511.2 E; 173711.2 N

PROJECT No FM2055 SURFACE R.L. 1.43 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	WEATHERING							DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								USC	EH	VH	M	J	L	VL				
0	1.43					SILTY CLAY - TOPSOIL Brown to yellow, moist, stiff.	CL											
1	0.43					SAND AND GRAVEL - FILL / ALLUVIUM Grey brown to orange brown, wet, very loose sand.	GP										1,1 N<1	SPT
3	-1.07					ESTUARINE SILTY CLAY - ALLUVIUM Dark grey, moist, very soft to soft strength. High plasticity, high organic content, partly decomposed plant roots.	OH										Slightly OC on top 1,1 N<1	SPT
5																	PP=30kPa	U50
6																	RW,HW, N<1	SPT
8	-5.57					SILTY CLAY - ALLUVIUM Pale green to grey green, moist, firm.	CI										PP=30kPa	U50
9																	2,3,6 N=9	SPT
10	-8.57																Middie alluvium??	

BOREHOLE WITH LITHOLOGY GATEWAY NORTHERN UPGRADE.GPJ ENG BOREHOLE FINAL GDT 28/4/05

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

LOGGED BY
B.Woodgate & A.Dissanayake



**Queensland
Government**

Department of
Main Roads

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DEPTH (m)	R.L. (m)	RUTGER 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	-8.57					SILTY CLAY - ALLUVIUM Pale green to mottled orange, mainly dry, stiff to very stiff. Some dessicated and mottled zones, some fissuring.	CI					3,4,7 N=11	SPT
11												8,11,16 N=27	SPT
12	-10.87												
13	-12.07					SANDSTONE COARSE GRAINED, MASSIVE TO LAMINATED, CALCAREOUSLY CEMENTED, SEDIMENTARY ROCK. HW : Pale green, moist to mainly dry, very dense silty sand grading into low strength rock.	HW					30/75,-- N>50	SPT
14			(100)			MW : Pale orange to grey orange, mainly massive to slightly laminated, mainly medium strength. Gradually grading into slightly weathered dark grey with depth. Defects - Generally rare. - Occasional drilling induced lamination partings <25deg (1/m).	MW				Siltstone layer Siltstone layer	Is(50)=0.52 MPa Is(50)=0.23 MPa	o x
15												Is(50)=0.48 MPa Is(50)=0.37 MPa	o x
16												Is(50)=0.31 MPa Is(50)=0.43 MPa	o x
17			100 (100)			Becoming mainly medium to occasional high strength below 16.5m.	MW					Is(50)=0.85 MPa Is(50)=0.51 MPa	o x
18	-17.07		100				SW					Is(50)=0.47 MPa Is(50)=0.65 MPa Is(50)=0.75 MPa Is(50)=0.55 MPa	o x o x
19												Is(50)=0.93 MPa Is(50)=1.14 MPa	o x
20						Borehole terminated at 18.5m						Is(50)=0.98 MPa Is(50)=0.93 MPa	o x

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 131**

Start Depth: 13.50m

Finish Depth: 18.50m

Project No: FM2055

H No: 9440

