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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 **BH145**

SHEET **1** of **1**

REFERENCE No **H9582**

PROJECT **GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION**

LOCATION \_\_\_\_\_ COORDINATES **8874.1 E; 171639.5 N**

PROJECT No **FM2055** SURFACE R.L. **1.41** DATE STARTED **2/2/05** DATUM **SETP**

JOB No \_\_\_\_\_ DATUM **AHD** DATE COMPLETED **3/2/05** DRILLER **R&D DRILLING PTY LTD**

DEPTH (m)	R.L. (m)	BOREHOLE WITH LITHOLOGY GATEWAY NORTHERN UPGRADE.GPJ ENG BOREHOLE FINAL GDT 30/4/05	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	1.41		CORE REC %										
0	1.41				<b>ESTUARINE WEATHERED OC CRUST</b> Grey to orange brown, mainly moist to slightly dry, stiff to very stiff.  Grading into fine to medium gravel, silty sand with depth.								
1												MC=21.8%, WD=1.96t/m3, DD=1.60t/m3	U100
2								OL				Peak Su=125kPa; Res Su=26kPa	FSV
3	-1.44				<b>SILTY SAND / SANDY SILT</b> Pale grey to pale brown, moist, loose.  High contrast of unweathered shells, fine to medium sand.							MC=26.8%, WD=1.98t/m3, DD=1.56t/m3	U100
4	-2.59							SM				Peak Su=37kPa; Res Su=10kPa	FSV
5					<b>ESTUARINE SANDY SILTY CLAY</b> Dark grey, moist, mainly soft to firm.  Fine grained sand; traces of organics.							MC=31.0%, WD=1.98t/m3, DD=1.50t/m3; LL=28%; PI=6.8% LS=5.4%; OC=3.05	U100
6								OH				Peak Su=34kPa; Res Su=5kPa	FSV
7	-5.74											MC=89.2%, WD=1.50t/m3, DD=0.80t/m3; LL=87.2%; PI=54% LS=21%	U100
8	-7.09				<b>SILTY CLAY</b> Pale green grey to grey green, moist, firm to stiff.  Occasional calcareously cemented nodules up to 30mm.  Medium to high plasticity; traces of jarosite veins.			CI				Peak Su=41.6kPa; Res Su=9.6kPa	FSV
9					<b>SILTY SAND</b> Pale grey to slightly orange, moist, loose.  Fine grained sand.							MC=21.2%, WD=2.04t/m3, DD=1.68t/m3	U100
10	-8.54							SM				4,4,8 N=12	SPT
11												3,3,5 N=8	SPT

REMARKS

Borehole terminated at 9.95m

LOGGED BY  
**A.Dissanayake**