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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 **BH146**

SHEET **1** of **2**

REFERENCE No **H9583**

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

LOCATION \_\_\_\_\_ COORDINATES **8834.5 E; 171663.9 N**

PROJECT No **FM2055** SURFACE R.L. **1.44** DATE STARTED **3/2/05**

DATUM **SETP**

JOB No \_\_\_\_\_ DATUM **AHD**

DATE COMPLETED **3/2/05**

DRILLER **R&D DRILLING PTY LTD**

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	1.44					<b>SANDY SILTY CLAY</b> Grey to mottled grey, moist, soft, sensitive. High plasticity.								
1														2,2,1 N=3 SPT
2								OL					1,1,2 N=3 SPT	
3													MC=34.6%, WD=1.84t/m <sup>3</sup> , DD=1.38t/m <sup>3</sup>	U100
4	-2.31					<b>SILTY SAND</b> Dark grey, moist, loose. Fine to medium grained sand, very high shell content.		SM					MC=33.0%, WD=1.78t/m <sup>3</sup> , DD=1.34t/m <sup>3</sup>	U100
5	-3.06					<b>ESTUARINE SILTY CLAY</b> Dark grey, moist, soft to mainly firm, sensitive. High content of shells.							Peak Su=38kPa, Res Su=10kPa	FSV
6													MC=89.2%, WD=1.50t/m <sup>3</sup> , DD=0.80t/m <sup>3</sup> ; LL=85.2%; PI=54% LS=22.2%; OC=9.45%	U100
7								OH					Peak Su=35kPa, Res Su=8kPa	FSV
8													Peak Su=35kPa, Res Su=6kPa	FSV
9	-6.91					<b>SANDY SILTY CLAY</b> Pale green to green grey, moist, firm. High plasticity; very fine sand.		CH					MC=90.4%, WD=1.50t/m <sup>3</sup> , DD=0.78t/m <sup>3</sup>	U100
10	-8.56												Peak Su=36kPa, Res Su=12kPa	FSV
													MC=25.4%; LL=33.4%; PI=16% LS=7%	1,2,5 N=7 SPT

REMARKS \_\_\_\_\_

LOGGED BY  
**A.Dissanayake**



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## ENGINEERING BOREHOLE

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BOREHOLE No **BH146**

SHEET **2** of **2**

REFERENCE No **H9583**

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

LOCATION \_\_\_\_\_ COORDINATES **8834.5 E; 171663.9 N**

PROJECT No **FM2055** SURFACE R.L. **1.44** DATE STARTED **3/2/05** DATUM **SETP**

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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD ( ) %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	-8.56					<b>SILTY SAND</b> Pale orange brown, moist, medium dense. <i>Very fine grained sand</i>		SM				6,6,9 N=15	SPT
	-9.01					Borehole terminated at 10.45m							
11													
12													
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18													
19													
20													

REMARKS \_\_\_\_\_

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