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# ENGINEERING BOREHOLE

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

BOREHOLE No BH144  
SHEET 1 of 2  
REFERENCE No H9581

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION  
LOCATION \_\_\_\_\_ COORDINATES 8843.0 E; 171594.3 N  
PROJECT No FM2055 SURFACE R.L. 1.28 DATE STARTED 2/2/05 DATUM SETP  
JOB No \_\_\_\_\_ DATUM AHD DATE COMPLETED 2/2/05 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
										EH	VH	H	N	J	VL	VE	20			
0	1.28					<b>CLAYEY SILT</b> Brown, moist, firm.													Drilling record only	
1	0.28					<b>ESTUARINE WEATHERED OC CRUST</b> Pale grey to mottled orange, moist, stiff, medium sensitive sandy silty clay.  Fine sand, slightly fissured, moist sandy laminations <10mm, some Fe-oxide concretions.													MC=26.6%, WD=1.90t/m3, DD=1.50t/m3  Peak Su=48kPa; Res Su=13kPa	U100 FSV
2									OH										MC=34.4%, WD=1.84t/m3, DD=1.38t/m3; LL=39.2%; PI=20% LS=9.2%  Peak Su=37kPa; Res Su=13kPa	U100 FSV
3																				
4	-2.72					<b>ESTUARINE SANDY SILT</b> Dark grey brown, soft to firm, partly decomposed shell fragments throughout. Medium to coarse sand.													MC=29.4%, WD=1.96t/m3, DD=1.52t/m3  Peak Su=35kPa; Res Su=8kPa	U100 FSV
5	-3.72					<b>ESTUARINE SILTY CLAY</b> Dark grey, moist, mainly firm, sensitive.  Partly decomposed vertical roots and high organic content throughout; some shell fragments.  Becoming stiff with depth.													MC=79.0%, WD=1.58t/m3, DD=0.88t/m3; LL=82.6%; PI=53.4% LS=20.4%  Peak Su=31kPa; Res Su=6kPa	U100 FSV
6																			MC=78.0%, WD=1.58t/m3, DD=0.88t/m3  Peak Su=35kPa; Res Su=7kPa	U100 FSV U100
7									OH										MC=84.0%, WD=1.52t/m3, DD=0.82t/m3; LL=85.4%; PI=5.8%; LS=21.2%  Difficult to push the large vein	FSV
8																			Peak Su=54kPa; Res Su=11kPa	FSV
9																				
10	-8.72																			

BOREHOLE WITH LITHOLOGY GATEWAY NORTHERN UPGRADE.GPJ ENG BOREHOLE FINAL.GDT 30/4/05

REMARKS \_\_\_\_\_

LOGGED BY  
**A.Dissanayake**



# ENGINEERING BOREHOLE

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

BOREHOLE No   BH144    
SHEET   2   of   2    
REFERENCE No   H9581  

PROJECT   GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION    
LOCATION \_\_\_\_\_ COORDINATES   8843.0 E; 171594.3 N    
PROJECT No   FM2055   SURFACE R.L.   1.28   DATE STARTED   2/2/05   DATUM   SETP    
JOB No \_\_\_\_\_ DATUM   AHD   DATE COMPLETED   2/2/05   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
									EH	VH	N	J			
10	-8.72					<b>ESTUARINE SILTY CLAY</b> (As above).		OH						MC=61.8%, WD=1.60/m3, DD=0.98/m3	U100
11	-9.47					<b>CLAYEY / SANDY SILT - ALLUVIUM</b> Pale green to grey green, moist, mainly stiff.  Medium to high plasticity, very fine grained sand.		CH						2,5,5 N=10	SPT
12	-11.17					Borehole terminated at 12.45m								2,5,6 N=11	SPT
13															
14															
15															
16															
17															
18															
19															
20															

BOREHOLE WITH LITHOLOGY GATEWAY NORTHERN UPGRADE.GPJ ENG BOREHOLE FINAL.GDT 30/4/05

REMARKS \_\_\_\_\_

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