Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH119
SHEET 1 of 2
REFERENCE No H9428

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION
LOCATION CONTROL LINE: MCAO - Ch. 21838.2 - OFFSET 42.4 R
COORDINATES 9239.9 E; 172148.2 N
PROJECT No FM2055
SURFACE R.L. 0.90
DATE STARTED 8/7/04
DATUM SETP
JOB No
DATUM AHD
DATE COMPLETED 8/7/04
DRILLER R & D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	MATERIAL DESCRIPTION	USC	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	0.90	**GRAVELLY SILTY CLAY - FILL** Mottled grey brown, moist, firm to stiff silty clay comprising sandstone fragments.	CL	5,4,4 N=8	SPT
	0.40	**ESTUARINE WEATHERED OC CRUST** Grey brown to mottled brown, moist,soft to firm. Frquent live roots; minor organic content.	OL	MC=28.8%, WD=1.94t/m3, DD=1.50t/m3	U50
1				1,2,1 N=3	SPT
	-0.85	**ESTUARINE SILTY CLAY** Dark grey to mottled brown, moist, mainly soft to firm, extra sensitive. Minor sand fractions (<5%); high plasticity.	OH	Peak Su >30.0kPa	FSV
2				Peak Su=35.2kPa, Res Su=3.2kPa	FSV
3	-2.29			MC=35.0%, WD=1.92t/m3, DD=1.42t/m3	U100
	-2.85	**ESTUARINE SILTY SAND** Dark grey to grey moist, loose. Medium to coarse grained sand; becoming clayey with depth.	SM		
4		**ESTUARINE SILTY CLAY** Dark grey to grey, moist, sensitive. High shell content towards bottom; minor clayey sand interlayers.	OH	Peak Su=24.3kPa, Res Su=3.6kPa	FSV
5	-4.35			MC=44.8%, WD=1.84t/m3, DD=1.28t/m3	U100
		SANDY SILTY CLAY - ALLUVIUM Pale grey green to to mottled orange, moist, firm to mainly stiff. Fine grained sand.			
6				3,5,6 N=11	SPT
7			CL	4,4,7 N=11	SPT
8					
9				3,3,7 N=10	SPT
10	-9.10				

AUGER / CASING / WASH BORING
RQD ( ) %
CORE REC %
SAMPLE
LITHOLOGY
USC
WEATHERING
INTACT STRENGTH: EH VH H M L VL EL
DEFECT SPACING (mm): 20 60 200 600 2000
GRAPHIC LOG

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

REMARKS

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 BH119
SHEET 2 of 2
REFERENCE No H9428

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION
LOCATION CONTROL LINE: MCAO - Ch. 21838.2 - OFFSET 42.4 R
COORDINATES 9239.9 E; 172148.2 N
PROJECT No FM2055
SURFACE R.L. 0.90
DATE STARTED 8/7/04
DATUM SETP
JOB No
DATUM AHD
DATE COMPLETED 8/7/04
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 (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	-9.10				**SANDY SILTY CLAY - ALLUVIUM** (As above)		CL					4,6,6 N=12	SPT
11	-10.10				**SAND - ALLUVIUM** Pale brown to orange brown, moist to mainly wet, medium dense. Mainly fine to medium sand.		SP					4,5,6 N=11	SPT
12													
13												3,8,12 N=20	SPT
14													
15												4,6,8 N=14	SPT
16	-15.55											7,8,10 N=18	SPT
17					Borehole terminated at 16.45m								
18													
19													
20													

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

REMARKS

LOGGED BY
B.Woodgate & A.Dissanayake