Queensland Government
Department of Main Roads

# ENGINEERING BOREHOLE

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

BOREHOLE No BH148
SHEET 1 of 2
REFERENCE No H9585

PROJECT GATEWAY UPGRADE PROJECT GEOTECHNICAL INVESTIGATION - NORTHERN SECTION
LOCATION
COORDINATES 9498.3 E; 169333.3 N
PROJECT No FM2055 SURFACE R.L. 3.99 DATE STARTED 4/2/05 DATUM SETP
JOB No DATUM AHD DATE COMPLETED 4/2/05 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 (EH VH H M L VL EL) | DEFECT SPACING (mm) (20 60 200 600 2000) | GRAPHIC LOG | ADDITIONAL DATA AND TEST RESULTS | SAMPLES TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 3.99 | | | | **SAND**<br>Black, fine grained. | | | | | | | Driller's record only. | |
| | 3.49 | | | | **SANDY CLAY**<br>Dark grey. | | | | | | | Driller's record only. | |
| 1 | 3.09 | | | | **SILTY CLAY**<br>Orange brown to mottled brown, moist, firm.<br>High plasticity. | | CH | | | | | 1,2,3<br>N=5 | SPT |
| | 2.29 | | | | **SAND**<br>Pale brown to orange brown, wet, medium dense.<br>Fine to medium sand becoming coarse with depth; occasional scattered gravel particles.<br>Becoming slightly gravelly below 3.5m. | | SP | | | | | 7,8,6<br>N=14 | SPT |
| 2 | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | 7,9,10<br>N=19 | SPT |
| 4 | | | | | | | | | | | | 10,12,12<br>N=24 | SPT |
| | -0.76 | | | | **SAND AND GRAVEL**<br>Pale brown to orange brown, wet, medium to dense, sub-angular to sub-rounded gravel sizing up to 50mm, minor fine fraction. | | GP | | | | | 18,18,18<br>N=36 | SPT |
| 5 | -1.51 | | | | **SAND**<br>Pale brown to orange brown, wet, medium dense. | | | | | | | | |
| 6 | | | | | | | | | | | | 8,12,12<br>N=24 | SPT |
| | -2.51 | | | | **SILTY CLAY**<br>Pale grey to pale orange and mottled grey, slightly moist, very stiff.<br>Medium to high plasticity, slightly fissured throughout, slightly lateritic throughout. | | | | | | | | |
| 7 | | | | | | | | | | | | 7,8,10<br>N=18 | SPT |
| 8 | | | | | | | CI | | | | | 4,9,13<br>N=22 | SPT |
| 9 | | | | | | | | | | | | 7,5,6<br>N=11 | SPT |
| 10 | -6.01 | | | | | | | | | | | | |

BOREHOLE WITH LITHOLOGY GATEWAY NORTHERN UPGRADE.GPJ ENG BOREHOLE FINAL.GDT 29/4/05

REMARKS

LOGGED BY
A.Dissanayake

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Department of Main Roads

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | -6.01 | | | | **SILTY CLAY**<br>As above. | | CI | | | | | 6,8,8<br>N=16 | SPT |
| 11 | | | | | | | | | | | | 6,8,9<br>N=17 | SPT |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | Slickensided joint<br>6,6,8<br>N=14 | SPT |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | Becoming brown towards bottom. | | | | | | | 5,6,8<br>N=14 | SPT |
| | -11.51 | | | | **SILTY CLAYEY SAND**<br>Pale grey to pale brown, moist, medium dense, fine to medium sand. | | | | | | | | |
| 16 | -12.46 | | | | | | | | | | | 6,13,14<br>N=27 | SPT |
| | | | | | Borehole terminated at 16.45m | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |

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REMARKS

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