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**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No AH14

SHEET 1 of 1

REFERENCE No H9681

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY INTERCHANGE GEOTECHNICAL INVESTIGATION

LOCATION Wilruna Street, About Chainage 450m, 5m left of control MCK1-C. COORDINATES 29378.9 E; 147299.1 N

PROJECT No FG5404 SURFACE R.L. 8.40 DATE STARTED 30/05/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 30/05/05 DRILLER Drillsure

| DEPTH (m) | R.L. (m) | AUGER | RQD () % | CORE REC % | SAMPLE | MATERIAL DESCRIPTION | USC WEATHERING | INTACT STRENGTH | DEFECT SPACING (mm) | GRAPHIC LOG | ADDITIONAL DATA AND TEST RESULTS | SAMPLES TESTS |
|-----------|----------|-------|-----------|------------|--------|---|----------------|-----------------|---------------------|-------------|----------------------------------|----------------------|
| | | | | | | | | | | | | |
| 0 | 8.40 | | | | | CLAYEY SILT (Topsoil) Pale grey-brown. | | | | | From drillers logs only. | |
| 1 | 7.90 | | | | | SILTY CLAY (Alluvium) Brown - dark brown, minor iron staining, moist, stiff. Medium plasticity. Trace oxide stains and gravel up to 10mm size. | CI | | | | | 4,5,6 N=11 SPT |
| 2 | 6.40 | | | | | Minor charcoal fragments up to 5mm size. | | | | | | 4,6,8 N=14 SPT |
| 3 | 5.90 | | | | | SANDY CLAY (Alluvium) Grey - yellow, minor orange iron staining, fine grained, moist, stiff. Medium plasticity. Minor gravel 15mm size. | CI | | | | | 4,4,6 N=10 SPT |
| 4 | 5.40 | | | | | SILTY CLAY (Alluvium) Grey - yellow, minor orange iron staining, trace fine sand, moist, stiff. Medium plasticity. | CI | | | | | 5,4,5 N=9 SPT |
| 5 | 4.90 | | | | | SANDY CLAY (Alluvium) Grey - brown, minor orange iron staining, moist, stiff. Low - medium plasticity. | CL-CI | | | | | 2,6,6 N=12 SPT |
| 6 | 4.40 | | | | | CLAYEY SAND (Residual) Pale grey, minor orange iron staining, stiff. Fine - medium grained, trace gravel 15-25mm size. Varies to Sandy Clay in parts. | SC | | | | Contains about 20% fines. | 4,5,7 N=12 SPT |
| 7 | 3.45 | | | | | SANDSTONE Pale grey, fine grained, minor orange iron staining, friable. Relict rock structure visible. Exhibits engineering properties of medium dense - dense Clayey Sand. | XW | | | | | 3,6,7 N=13 SPT |
| 8 | | | | | | | XW-HW | | | | | 3,7,13 N=20 SPT |
| 9 | | | | | | | | | | | | 15,21,23 N=44 SPT |
| 10 | | | | | | Borehole terminated at 4.95m | | | | | | |

REMARKS No standing groundwater encountered at time of drilling.

LOGGED BY
JML

ENGINEERING BOREHOLE FG5404 - AUGER 6.9.05.GPJ QLD MAIN ROADS GDT 16/11/05