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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 **BH26**

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

REFERENCE No **H9756**

PROJECT **IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION**

LOCATION **Near Retaining Wall 5, Approximate Chainage 839m, 10m right of control MC32.** COORDINATES **29701.9 E; 147217.6 N**

PROJECT No **FG5404** SURFACE R.L. **29.30** DATE STARTED **18/10/05** DATUM **Ipswich Motorway**

JOB No **148/17A/57** DATUM **AHD** DATE COMPLETED **18/10/05** DRILLER **Drillsure**

| DEPTH (m) | R.L. (m) | ALGER CASING WASH BORING CORE DRILLING | RQD (%) | CORE REC % | SAMPLE | MATERIAL DESCRIPTION | USC WEATHERING | INTACT STRENGTH | DEFECT SPACING (mm) | GRAPHIC LOG | ADDITIONAL DATA AND TEST RESULTS | SAMPLES TESTS |
|-----------|----------|--|------------|------------|--------|--|----------------|-----------------|---------------------|-------------|--|---------------|
| | | | | | | | | | | | | |
| 0 | 29.30 | | | | | SILT (Topsoil) Grey. Based on Drillers logs. | | | | | | |
| 1 | 28.50 | | | | | SILTSTONE Varies to fine Clayey Sandstone in parts. Pale grey, minor orange iron staining throughout, relict fabric visible. Exhibits properties of stiff Silty Clay / Clayey Silt. | | | | | 3.4,5 N=9 | SPT |
| 2 | 26.80 | | | | | CLAYEY SANDSTONE Varies to Siltstone in parts. Pale grey, minor orange iron staining, fine grained, low plasticity, moist. Exhibits properties of very stiff Sandy Clay. | | | | | 7,12,15 N=27 | SPT |
| 3 | 25.30 | | | | | SILTSTONE / CLAYSTONE Pale grey, minor iron stains. Exhibits properties of very stiff Silty Clay. | XW | | | | 5,8,12 N=20 | SPT |
| 4 | 23.80 | | | | | SANDSTONE Pale grey, minor orange iron staining, fine grained, moist. Relict rock structure and fabric visible. Kernels of less weathered rock up to 5mm size in parts. Exhibits properties of dense Clayey Sand with fine Gravel. | | | | | 5,16,16 N=32 | SPT |
| 5 | 22.30 | | | | | Pale grey with orange brown iron staining. | HW | | | | 30/50mm N>50 | SPT |
| 6 | 21.30 | | (0) | | | Quartzose with slightly clayey matrix. Generally fine grained with occasional medium-coarse grained massive bands. HW clayey bands in parts. | HW | | | | Is(50)=0.12 MPa Is(50)=0.16 MPa | x o |
| 7 | | | 60 (77) | | | Bedding sub horizontal - 10°. | | | | | | |
| 8 | | | | | | Defects mostly parallel bedding or ar drilling induced partings. Surfaces are PL, SM, C or O, occasionally with a thin clay film. | MW | | | | Is(50)=0.19 MPa Is(50)=0.22 MPa | x o |
| 9 | | | | | | Massive medium - coarse grained band between 9.25 and 10.6m. | | | | | Clay seam, 0°, 20mm thick. Is(50)=0.50 MPa Is(50)=0.41 MPa | x o |
| 10 | | | | | | | | | | | Clay seam, 0°, 20mm thick. | |

REMARKS **No groundwater reported during drilling. See Additional Descriptive Coding sheet for abbreviations.**

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ENGINEERING BOREHOLE

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

BOREHOLE No BH26

SHEET 2 of 2

REFERENCE No H9756

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Retaining Wall 5, Approximate Chainage 839m, 10m right of control MC32. COORDINATES 29701.9 E; 147217.6 N

PROJECT No FG5404 SURFACE R.L. 29.30 DATE STARTED 18/10/05 DATUM Ipswich Motorway

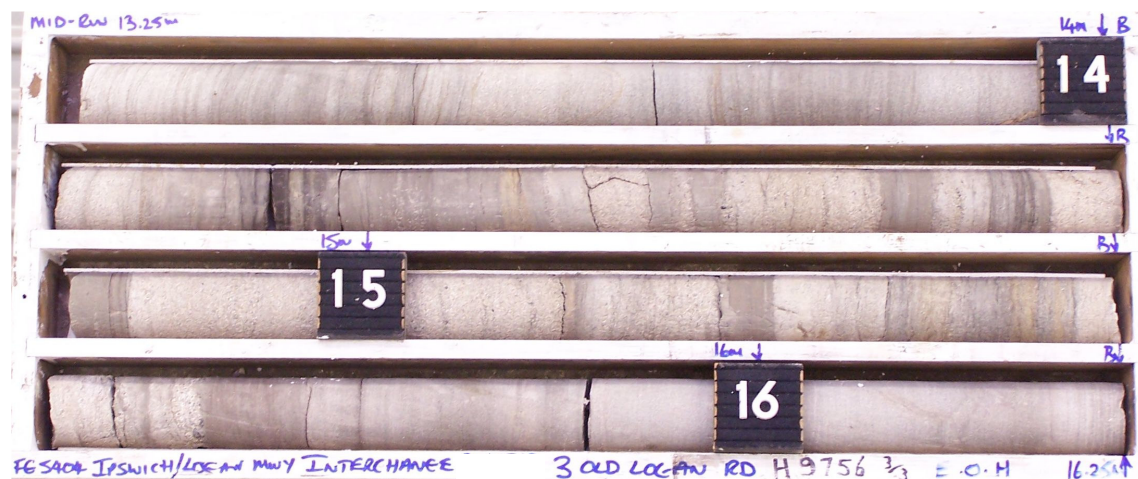
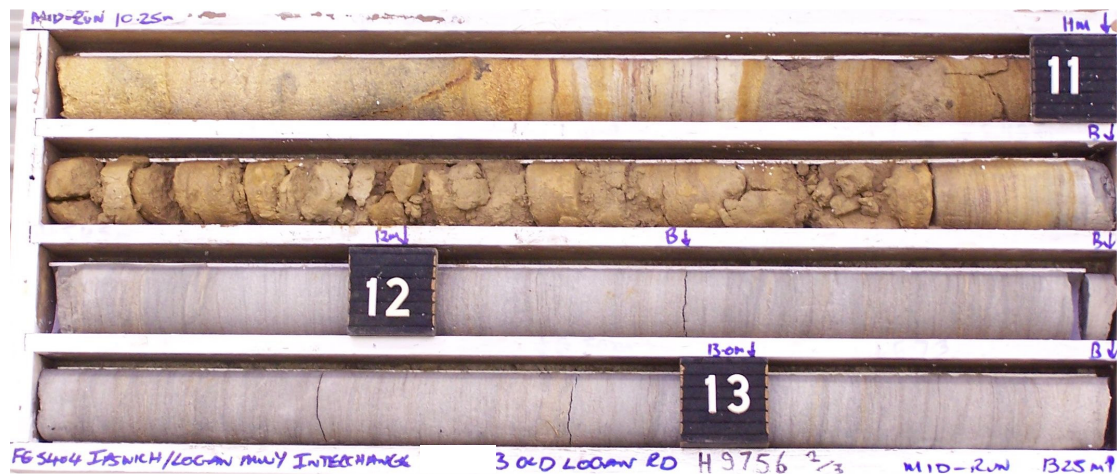
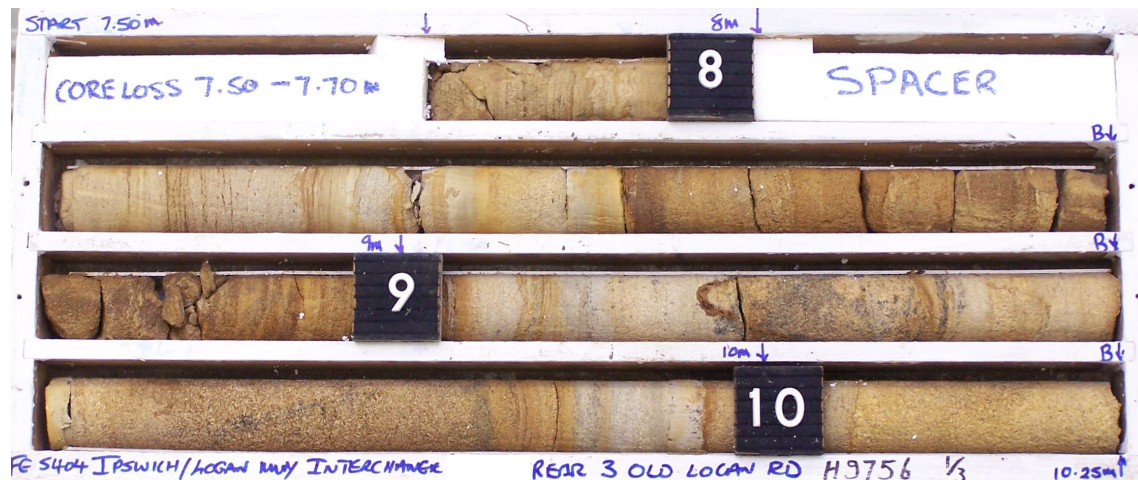
JOB No 148/17A/57 DATUM AHD DATE COMPLETED 18/10/05 DRILLER Drillsure

| DEPTH (m) | R.L. (m) | ALGER CASING WASH BORING CORE DRILLING | RQD () % | CORE REC % | SAMPLE | MATERIAL DESCRIPTION | USC WEATHERING | INTACT STRENGTH | | | | | DEFECT SPACING (mm) | GRAPHIC LOG | ADDITIONAL DATA AND TEST RESULTS | SAMPLES TESTS |
|-----------|----------|--|-----------|------------|--------|--|----------------|-----------------|----|----|----|----|---------------------|-------------|--|------------------|
| | | | | | | | | EH | VH | HL | ML | VL | EL | | | |
| 10 | 19.30 | | | | | | | | | | | | | | | |
| | | | | | | Sandstone Cont'd. | | | | | | | | | | |
| | 18.70 | | | | | As before. Occasional interbands of siltstone or clayey shale up to 300mm thick. | MW | | | | | | | | Is(50)=0.33 MPa Is(50)=0.28 MPa | x o |
| 11 | | | 100 (80) | | | Weathered to exhibit properties of Clayey Sand in parts. | HW-XW | | | | | | | | | |
| | 17.45 | | | | | | | | | | | | | | | |
| 12 | | | | | | Pale grey. | | | | | | | | | Is(50)=0.15 MPa Is(50)=0.34 MPa | x o |
| | | | | | | Few defects. Numerous drilling induced bedding plane partings throughout. Occasional rehealed defects, 70° with PL, T and brown iron stained surfaces. | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | Is(50)=0.92 MPa Is(50)=1.06 MPa | x o |
| 14 | | | 100 (93) | | | | SW | | | | | | | | Is(50)=0.14 MPa Is(50)=0.20 MPa | x o |
| | | | | | | | | | | | | | | | Siltstone / Shale band. | |
| | | | | | | | | | | | | | | | 2 Shale bands, 10°, 20mm thick. 2 Shale bands, 10°, 40mm thick. Shale band, 10°, 40mm thick. | |
| 15 | | | | | | | | | | | | | | | Is(50)=0.56 MPa Is(50)=0.44 MPa | x o |
| | | | | | | | | | | | | | | | Shale band, 0-10°, 30mm thick. | |
| 16 | 13.05 | | 100 | | | | | | | | | | | | Is(50)=0.22 MPa Is(50)=0.18 MPa Is(50)=0.63 MPa Is(50)=0.57 MPa | x o x o |
| | | | | | | Borehole terminated at 16.25m | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |

REMARKS No groundwater reported during drilling. See Additional Descriptive Coding sheet for abbreviations.

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Project: **Ipswich Motorway / Logan Motorway Interchange**
 Borehole No: **BH26**
 Start Depth: 7.50m
 Finish Depth: 16.25m
 Project No: FG5404
 H No: 9756



0 100 200 300 400 500 600mm

SCALE 1:5