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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 BH22

SHEET 1 of 2

REFERENCE No H9722

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Abutment A, Approximate Chainage 67m, 7m right of control MC81. COORDINATES 29686.6 E; 147202.8 N

PROJECT No FG5404 SURFACE R.L. 27.40 DATE STARTED 01/09/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 01/09/05 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	27.40					SILT and GRAVEL - Topsoil Grey, loose. Contains gravel 50 - 100mm size. Based on Drillers logs only.						
1	25.90					SILTY CLAYSTONE Pale grey, mottled with orange-red iron stains, gritty, slightly moist. Engineering properties of a medium dense Silty Clay and Gravel.					3,7,8 N=15	SPT
2	24.90					SANDSTONE Pale grey, fine grained, friable, dry. Minor silt and clay throughout. Engineering properties of medium dense Silty Sand.					5,8,13 N=21	SPT
3	23.90					CLAYEY SILTSTONE Grey with orange-brown iron staining, moist. Faint subhorizontal structure visible. Engineering properties of hard Silty Clay or Clayey Silt.					10,19,22 N=41	SPT
4	22.10					CLAYSTONE Pale grey, minor iron staining, moist. Trace silt throughout. Relict sub orizontal and vertical structure visible. Engineering properties of very stiff Silty Clay.	XW				9,9,13 N=22	SPT
5	20.60					SANDSTONE Pale grey, minor orange iron staining, fine to medium grained, friable, moist. Engineering properties of very dense Sand.					21,30/90mm N>50	SPT
6						Fine grained. Engineering properties of very dense Clayey Sand.					16,19,30/120mm N>50	SPT
7												
8												
9												
10	17.40											

REMARKS See attached photograph for visual assessment of material. No groundwater reported during drilling. See Additional Descriptive Coding sheet for abbreviations.

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BOREHOLE No BH22

SHEET 2 of 2

REFERENCE No H9722

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Abutment A, Approximate Chainage 67m, 7m right of control MC81. COORDINATES 29686.6 E; 147202.8 N

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JOB No 148/17A/57 DATUM AHD DATE COMPLETED 01/09/05 DRILLER Drillsure

DEPTH (m)	R.L. (m)	AUGER 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
10	17.40					MUDSTONE Dark grey - black, minor iron staining, moist. Contains some thin bands of fine sand and organic fragments. Engineering properties of hard Clay of low to intermediate plasticity. Iron stained rock defects visible ~20-30°. Trace iron stains. Trace iron stains. Contains thin bands of pale grey siltstone throughout. Average spacing 150-200mm. Bedding ~20°. Local variation to 10°. Defects mostly 20°, occasionally 60°. Defect surfaces are mostly PL, SM, C, CN.	HW				8,17,18 N=35 9,18,30/120mm N>50 12,30/130mm N>50 17,30/130mm N>50 Is(50)=0.08 MPa Is(50)=0.26 MPa Is(50)=0.13 MPa Is(50)=0.13 MPa Is(50)=0.17 MPa Is(50)=0.28 MPa	SPT SPT SPT SPT x o x o x x
11												
12												
13												
14												
15												
16												
17												
18						Borehole terminated at 17.5m						
19												
20												

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Project: Ipswich Motorway / Logan Motorway Interchange

Borehole No: **BH22**

Start Depth: 1.50m

Finish Depth: 14.78m

Project No: FG5404

H No: 9722



Project: **Ipswich Motorway / Logan Motorway Interchange**
Borehole No: **BH22**
Start Depth: 15.00m
Finish Depth: 17.50m
Project No: FG5404
H No: 9722

