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**Queensland
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Department of
Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No **BH11**

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

REFERENCE No **H9739**

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

LOCATION **Near Pier 4, Approximate Chainage 706m, about 6m left of control MCB1-C.** COORDINATES **30021.6 E; 147445.3 N**

PROJECT No **FG5404** SURFACE R.L. **21.00** DATE STARTED **29/08/05** DATUM **Ipswich Motorway**

JOB No **148/17A/57** DATUM **AHD** DATE COMPLETED **29/08/05** 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	IM	JL	VL				
0	21.00					ASPHALT and ROADBASE Driller's log.										
	20.60					GRAVELLY SILTY CLAY - Fill Mottled brown, moist, very stiff, low plasticity. Gravel fraction fine to 15mm size.										6,10,11 N=21
1																
2																
3						Dark brown, moist, stiff, low to medium plasticity. Contains a fine gravel fraction, and some white carbonate nodules.										2,7,3 N=10
4	17.40					SANDSTONE Pale yellow grey to iron stained red, moist, clayey in parts, low plasticity. Medium to coarse grained quartz sand fraction. Exhibits engineering properties of medium dense to very dense Clayey Sand. Varies to very stiff - hard Sandy Clay in parts.										11,18,20 N=38
5																
6						Heavily iron stained.	XW									19,22,30/125mm N>50
7						Grey. Occasional siliceous gravel up to 30mm size.										8,9,13 N=22
8																
9	12.60		(60)			SANDSTONE Pale yellow, with some red iron stained bands, fine grained, contains some siltstone bands, subhorizontal bedding. Generally very low strength.	HW								Gravel inclusions to 35mm size. Is(50)=0.08 MPa Is(50)=0.12 MPa Is(50)=0.16 MPa Is(50)=0.17 MPa	x o x o
10	11.00															

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

LOGGED BY
J. Kleindienst



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ENGINEERING BOREHOLE

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

BOREHOLE No BH11

SHEET 2 of 2

REFERENCE No H9739

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 4, Approximate Chainage 706m, about 6m left of control MCB1-C. COORDINATES 30021.6 E; 147445.3 N

PROJECT No FG5404 SURFACE R.L. 21.00 DATE STARTED 29/08/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 29/08/05 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
								EH	VH	M	J	VL	EL			
10	11.00															
	10.87					Sandstone Cont'd.										
						SILTSTONE										
						Dark grey, very fine grained, sub horizontal laminations, occasional sandstone bands.	HW								Brown laminations.	
						Very low strength.									HW sandstone band.	
11			100 (19)												HW sandstone band.	
			27				HW								Pebbly/fine conglomerate band.	
12	9.00					SANDSTONE									SPT test : no penetration.	SPT
			(90)			Grey to pale yellow, laminated, subhorizontal bedding , low - medium strength.										
						Very few defects.	MW									
13															Is(50)=0.47 MPa Is(50)=0.83 MPa	x o
	7.20		100												Is(50)=0.36 MPa Is(50)=0.78 MPa	x o
14						Borehole terminated at 13.8m										
15																
16																
17																
18																
19																
20																

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

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J. Kleindienst

Project: **Ipswich Motorway / Logan Motorway Interchange**
Borehole No: **BH11**
Start Depth: 8.40m
Finish Depth: 13.80m
Project No: FG5404
H No: 9739

