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**Queensland  
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**Main Roads**

# ENGINEERING BOREHOLE

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

BOREHOLE No **BH10**

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

REFERENCE No **H9657**

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

LOCATION **Near Pier 2, Approximate Chainage 646m, about 4m right of control MCB1-C.** COORDINATES **29963.5 E; 147433.1 N**

PROJECT No **FG5404** SURFACE R.L. **19.40** DATE STARTED **26/07/05** DATUM **Ipswich Motorway**

JOB No **148/17A/57** DATUM **AHD** DATE COMPLETED **26/07/05** 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
0	19.40					<b>CLAYEY SILT / SAND and GRAVEL (Fill)</b> Brown, moist, minor organics. Contains gravel up to 25mm size.						
1											10,10,21 N=31	SPT
2	17.40					<b>SAND (Alluvium)</b> Pale brown grey, fine to medium grained, very moist, minor clay throughout, dense.	SM-SP				6,6,8 N=14	SPT
3	16.20					<b>SANDSTONE</b> Pale grey, fine to medium grained, moist, minor yellow brown iron staining in parts, trace siliceous gravel up to 20mm. Exhibits engineering properties of dense Clayey Sand.	XW				12,14,23 N=37	SPT
4												
5												
6	13.90					Pale grey, yellow brown iron staining, fine grained, clay matrix, relict sub horizontal fabric visible. Exhibits engineering properties of very dense Clayey Sand.	XW-HW				10,17,30/115mm N>50	SPT
7											12,24,30/100mm N>50	SPT
8	11.40					<b>SILTSTONE</b> Pale grey and pale brown, laminated, moist. Exhibits engineering properties of very dense Clayey Silt.	XW-HW				30/120mm N>50	SPT
9	10.40		(100)			<b>Interbedded SILTSTONE and SANDSTONE</b> Pale brown to pale grey, minor thin carbonaceous laminations throughout, minor yellow brown iron staining and red bands in parts.	MW-SW			Bedding ~10° Is(50)=0.21 MPa Is(50)=0.21 MPa	x o	
10											Is(50)=0.19 MPa Is(50)=0.12 MPa	o x

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

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

BOREHOLE No     BH10    

SHEET     2     of     2    

REFERENCE No     H9657    

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 2, Approximate Chainage 646m, about 4m right of control MCB1-C. COORDINATES 29963.5 E; 147433.1 N

PROJECT No FG5404 SURFACE R.L. 19.40 DATE STARTED 26/07/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 26/07/05 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				
10	9.40					<b>Interbedded Siltstone and Sandstone Cont'd.</b>	MW-SW						20 60 200 600 2000		Is(50)=0.16 MPa	x
11	9.10					<b>SANDSTONE</b>  Pale grey, minor yellow iron staining, fine grained, minor thin carbonaceous laminations. Bedding ~10°, defects mostly drilling induced.  Below 11.45m, fine to medium grained, silicified.	SW								Bedding 10°  Is(50)=0.20 MPa  Bedding 5° Jt, 20°, PL, SM, C, thin CL coat 0.5mm thick. Bedding 20°	o
12	7.40		94			Borehole terminated at 12m									Is(50)=0.81 MPa Is(50)=1.51 MPa	x o
13																
14																
15																
16																
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: **BH10**  
Start Depth: 9.00m  
Finish Depth: 11.82m  
Project No: FG5404  
H No: 9657

