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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 BH27

SHEET 1 of 2

REFERENCE No H9777

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Retaining Wall 5, Approximate Chainage 846m, 8m right of control MC32. COORDINATES 29696.9 E; 147213.2 N

PROJECT No FG5404 SURFACE R.L. 28.90 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)	AUGER CASING WASH BORING	RQD ( ) %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	28.90											
	28.70					<b>SILT</b> (Topsoil) Grey. <b>CLAYEY SILT</b> (Residual)  Mottled orange - brown. Based on Drillers logs only.						
1	27.90					<b>SILTSTONE</b>  Pale grey, minor orange - brown iron staining, friable, moist. Varies to fine sandstone in parts. Contains kernels of less weathered rock up to 5mm size.  Exhibits properties of dense - very dense Clayey Silt and Gravel.  Becoming slightly more clayey with depth.					9,16,15 N=31	SPT
2												
3											14,13,16 N=29	SPT
4											13,30/150mm N>50	SPT
5												
6	23.50					<b>SANDSTONE</b>  Pale grey, fine grained, friable, moist. Exhibits properties of very dense Clayey Sand.  Becoming Clayey Sandstone with depth.	XW				21,30/140mm N>50	SPT
7						Exhibits properties of medium dense Sandy Clay with some iron stained gravelly fragments up to 10mm size.					12,12,12 N=24	SPT
8	21.40					<b>CLAYSTONE / MUDSTONE</b>  Grey - brown, minor iron staining, high plasticity, moist. Exhibits properties of very stiff Clay.					4,9,12 N=21	SPT
9												
10												

REMARKS No groundwater reported during drilling. Hole set up as groundwater monitoring point. See Additional Descriptive

Coding sheet for abbreviations.

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								EH	VH	HM	JL	VL	EL				
10	18.90					<b>Claystone / Mudstone Cont'd.</b>								20			
						As before. Relict structure visible in parts.	XW							60			
11														200			
	17.40					<b>MUDSTONE</b>								600			
12						Varies to Claystone in parts. Dark grey - brown, high plasticity, carbonaceous in parts. Relict structure and fabric visible.								2000			
						Exhibits properties of hard Clay.											
13							XW-HW										
14																	
15	13.90					Borehole terminated at 15m											
16																	
17																	
18																	
19																	
20																	

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