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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     BH13    

SHEET     1     of     2    

REFERENCE No     H9751    

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Abutment B, Chainage 792m, on control MCB1-C. COORDINATES 30105.1 E; 147425.8 N

PROJECT No FG5404 SURFACE R.L. 21.40 DATE STARTED 13/10/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 13/10/05 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	21.40					<b>GRAVELLY SILT (Fill)</b> Grey. Based on Drillers log.						
1	20.40					<b>SILTY CLAY (Fill)</b> Dark brown with some minor orange - red iron staining, moist, low plasticity. Soft.					1,1,2 N=3	SPT
2												
3	18.90					<b>CLAYEY GRAVEL (Fill)</b> Grey, moist, rounded gravel 10-15mm size, loose.					2,3,2 N=5	SPT
4	17.40					<b>CLAYEY SAND (Alluvium)</b> Pale grey - brown, minor yellow iron staining, fine to medium grained, moist, medium dense.	SC				9,10,9 N=19	SPT
5												
6	15.90					<b>SANDSTONE</b> Pale grey, trace iron stains, fine - medium grained, moist. Exhibits properties of medium dense - dense Clayey Sand.					5,8,11 N=19	SPT
7												
8							XW					
9						Yellow iron staining.					10,8,10 N=18	SPT
10	11.40										13,18,26 N=44	SPT

Driller reported water loss.

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

LOGGED BY  
J. Kleindienst



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# ENGINEERING BOREHOLE

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BOREHOLE No     BH13    

SHEET     2     of     2    

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PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Abutment B, Chainage 792m, on control MCB1-C. COORDINATES 30105.1 E; 147425.8 N

PROJECT No FG5404 SURFACE R.L. 21.40 DATE STARTED 13/10/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 13/10/05 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	I	M	J	V					EL
10	11.40					<b>SILTSTONE</b> Grey to pale yellow, very fine grained, low strength. Exhibits properties of very dense Clayey Silt.	HW									30/100mm N>50	SPT	
11	9.90		(45)			<b>SANDSTONE</b> Grey brown, fine to medium grained, subhorizontal laminations, may be slightly carbonaceous.	MW								Jt, 60°			
12	9.25		100 (82)													Jt, 10°	Is(50)=0.08 MPa Is(50)=0.52 MPa	x o
13						Grey, with lighter grey sub horizontal laminations, fine to medium grained, may be slightly carbonaceous. Low to medium strength with few defects, mainly planar joints at 60°-70°.	MW								Jt, 70°			
13																Jt, 70°	Is(50)=0.28 MPa Is(50)=0.54 MPa	x o
13																Jt, sub horizontal.	Is(50)=0.24 MPa Is(50)=0.72 MPa	x o
14	7.00		100												Jt, 70°, healed. Jt, 70° Jt, 60°	Is(50)=0.24 MPa Is(50)=0.90 MPa	x o	
15						Borehole terminated at 14.4m												
16																		
17																		
18																		
19																		
20																		

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

LOGGED BY  
**J. Kleindienst**

Project: **Ipswich Motorway / Logan Motorway Interchange**  
Borehole No: **BH13**  
Start Depth: 11.5m  
Finish Depth: 14.4m  
Project No: FG5404  
H No: 9751

