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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 BH16

SHEET 1 of 2

REFERENCE No H9765

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 2, Approximate Chainage 565, 4.5m right of control MCJ1-C. COORDINATES 29973.3 E; 147328.3 N

PROJECT No FG5404 SURFACE R.L. 16.90 DATE STARTED 19/10/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 19/10/05 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	16.90											
1	16.70					<b>CONCRETE</b>						
						<b>SILTY CLAY</b> (Residual) Orange - brown. Based on drillers logs only.						
1	15.90					<b>SANDSTONE</b> Pale grey - grey, minor orange brown iron staining, fine - medium grained, clayey throughout, moist. Relict fabric visible in parts. Exhibits properties of medium dense Clayey Sand.	XW				2,6,10 N=16	SPT
2												
3											4,5,8 N=13	SPT
4	13.10					<b>Interbedded SANDSTONE and SILTSTONE</b> Pale grey, minor orange brown iron staining, fine grained, moist. Clayey bands in parts and fine mica throughout. Subhorizontal structure and thin laminations visible throughout. Exhibits properties of very dense Clayey Sand or Clayey Silt. Occasional organic interlamination.	XW-HW				12,30/120mm N>50	SPT
5												
6												
7											30/110mm N>50	SPT
8	9.40		(85)			<b>Interbedded SILTSTONE and MUDSTONE</b> Some fine grained Sandstone interbeds in parts. Grey - pale grey and yellow brown. Thinly laminated in parts. Subhorizontal bedding. Occasional HW clayey bands. Defects mostly dip parallel bedding, 40°, 80°. Defect surfaces are mostly PL, SM, C, CN with sligh iron or oxide stains.	MW				Jt, 80°, PL, SM, T, CN Is(50)=0.18 MPa	x
9	8.05					<b>SANDSTONE with SHALE and CARBONACEOUS MUDSTONE Interbeds</b> Pale grey and dark grey, fine grained. Bedding 0-10°. Defects as before.	SW				Jt, 80°, Cu, SM, T. Jt, 40°, PL, SM, C, CN. HW sheared CLy seam, 10°. Is(50)=0.20 MPa Jt, 80°, PL, R, O, CN Is(50)=0.34 MPa Jt, 10°, PL, SM, C, SL, Fest, waxy feel. HW sheared CLy seam, 10°. Is(50)=0.33 MPa Is(50)=0.43 MPa	x o o
10	7.20					<b>SANDSTONE</b>					Jt, 70°, Un, R, O, CN.	

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

LOGGED BY  
**JML**

# ENGINEERING BOREHOLE

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

BOREHOLE No   BH16  

SHEET   2   of   2  

REFERENCE No   H9765  

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 2, Approximate Chainage 565, 4.5m right of control MCJ1-C. COORDINATES 29973.3 E; 147328.3 N

PROJECT No FG5404 SURFACE R.L. 16.90 DATE STARTED 19/10/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 19/10/05 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
10	6.90					Pale grey, fine grained, Thin siltstone bands and carbonaceous laminations throughout. Bedding 0-10°.	SW				Is(50)=0.33 MPa Is(50)=0.65 MPa	x o
11	6.40		100			Borehole terminated at 10.5m						
12												
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: **BH16**  
Start Depth: 7.50m  
Finish Depth: 10.50m  
Project No: FG5404  
H No: 9765

