

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "*(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence*". This licence does not apply to the Queensland Government logo or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://qgd.org.au/>



**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH18

SHEET 1 of 2

REFERENCE No H9663

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 4, Chainage 631m, on control MCJ1-C. COORDINATES 29908.8 E; 147314.8 N

PROJECT No FG5404 SURFACE R.L. 23.30 DATE STARTED 20/07/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 20/07/05 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
0	23.30					ASPHALT and ROAD BASE						
	22.90					SANDSTONE Pale grey, orange iron staining throughout, occasional mottling in parts, fine grained, moist. Some relict structures and rock fabric visible in parts. Exhibits engineering properties of dense to very dense Clayey Sand.						
1											11,13,20 N=33	SPT
2												
3											16,20,30 N=50	SPT
4											21,30/130mm N>50	SPT
5							XW					
6						Some intense iron staining, slightly more clayey in parts. Dense.					8,18,25 N=43	SPT
7						Becoming slightly more clayey with depth, very moist. Medium dense - dense.					10,15,14 N=29	SPT
8						Resembles Clayey Sand. Pale grey, trace iron stains, very moist. Very dense.					14,22,27 N=49	SPT
9												
10	13.30										10/20mm N>50	SPT

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

LOGGED BY
JML



**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH18

SHEET 2 of 2

REFERENCE No H9663

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 4, Chainage 631m, on control MCJ1-C. COORDINATES 29908.8 E; 147314.8 N

PROJECT No FG5404 SURFACE R.L. 23.30 DATE STARTED 20/07/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 20/07/05 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	EV	HM	J	V	VL				
10	13.30					SILTSTONE Pale grey, yellow brown iron staining throughout, subhorizontal structures visible with a trace of fine sand. Very dense.	HW								Gravelly layer with siliceous gravel up to 20mm size.		
11	11.80					SANDSTONE, SHALE and SILTSTONE INTERBEDS Pale brown to yellow brown, fine grained, clayey, laminations at ~10° throughout.	HW								11,30/100mm N>50	SPT	
12	10.75					SANDSTONE Pale yellow brown to grey, fine grained, laminations ~10° in parts. Some massive bands and occasional HW bands. Defects mostly dip 10°, 70° or 80°. Defect surfaces are mostly PL, SM-SR, C, CN occasionally with 2mm clay infills. Numerous drilling induced bedding plane partings throughout.	MW								Siliceous cobble 70mm.		
13	8.50														Jt, 80°, PL, SR, C, slight CL weathering Is(50)=0.15 MPa Is(50)=0.32 MPa	x o	
14	8.20														Jt, 10°, PL, SM, C, CL up to 2mm Bedding ~10° Jts, 10°, PL, SL, C thin CL coat Jt, 10°, SR, PL, C, thin clayey film Is(50)=0.36 MPa Is(50)=0.23 MPa	x o	
15	8.20			85		SHALE Grey - yellow brown, laminations 10°.	MW-HW								Jts, 70°, PL, SR, T, Fest Is(50)=0.19 MPa Is(50)=0.23 MPa	x o	
16						Borehole terminated at 15.1m											
17																	
18																	
19																	
20																	

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

LOGGED BY
JML

Project: **Ipswich Motorway / Logan Motorway Interchange**

Borehole No: **BH18**

Start Depth: 11.60m

Finish Depth: 15.10m

Project No: FG5404

H No: 9663

