COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the <u>Creative Commons Attribution 4.0 Licence</u> (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/



ENGINEERING BOREHOLE FG5404 - BOREHOLES.GPJ QLD MAIN ROADS.GDT 16/11/05

ENGINEERING BOREHOLE

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

BOREHOLE No	B <u>H15</u>
SHEET	_ <u>1</u> _ of _ <u>2</u> _
REFERENCE No	H9719

PROJECT	-	<u>IPS</u>	<u>W</u>	CH MC	OTO	RWAY / LOGAN MOTORWAY GEOTECHNICAL I	NVES	TIGATION _				
LOCATIO	N Near Pier 1, Approximate Chainage 524m, about 6.5m right of control MCJ1-C. COORDINATES 30015.3 E; 147332.8 N									<u> </u>		
PROJEC1	JECT No <u>FG5404</u>					SURFACE R.L20.90 DATE STARTED		18/07/05		DATUM _Ipswich Motor	ch Motorway	
JOB No		148	3/ <u>1</u> 7	7 <u>A/57</u> _		DATUM <u>AHD</u>	DAT	E COMPLETED	18/07	<u>/05</u>	DRILLER <u>Drillsure</u>	
m) R.L.)	AUGER CASING WASH BORING	ORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	USC	STRENGTH SP (ボンナミンシゴ 23	ACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0 20	.90		7	REC %	0)	CLAYEY SAND (Fill)						0) F
-1-11	.90					Pale brown, fine grained, minor orange brown iron staining, slight cementation in parts, medium dense.					8,7,12 N=19	SPT -
-3						SILTY SAND (Alluvium) Dark brown, fine to medium grained, moist, medium dense. Clayey in parts, minor organics. Old soil profile.	SM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			6,5,6 N=11	SPT -
-4 						CLAYEY SANDSTONE Pale grey with minor orange iron staining throughout, fine grained, moist. Contains some fragments of XW rock with relict structure in parts. Exhibits engineering properties of firm - stiff Sandy Clay. Becomes less clayey with depth.		1 1 1 1			Poorly consolidated rock weathered to a soil like state. 2,4,7 N=11	SPT -
- - - - - - - - - - - - -						Resembles fine grained Clayey Sand. Pale grey, moist, loose. Varies to Sandy Clay in parts.	xw				High proportion of fines 2,3,4 N=7	SPT -
						Pale grey, fine to medium grained, wet, medium dense. Exhibits properties of slightly clayey Sand.					Less fines 8,6,6 N=12	SPT -
9	40					SHALE Pale grey, minor orange brown iron staining, fine grained, faint sub horizontal laminations visible throughout. Low strength rock. Engineering properties of hard Silty Clay.	HW				13,16,30/150mm N>50	SPT -
	RKS	No	gro	undwat	er re	ported during drilling. See Additional Descriptive Coding	shee	t for abbreviation	ns		LOGGED BY JML	



ENGINEERING BOREHOLE

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

BOREHOLE No	B <u>H15</u>
SHEET	_2_ of _2_
REFERENCE No	H9719

		IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION										
		Near Pier 1, Approximate Chainage 524m, about 6.5m right of control MCJ1-C.										
		o_F <u>G5404</u>				DATE STARTED _18/07/				<u>way</u>		
JOB	No	<u>148/1</u>	7 <u>A/57</u>		DATUM <u>AHD</u> .	DAT	E COMPLETE	ED <u>18/07</u>	<u>7/05</u>	DRILLER <u>Drillsure</u>		
DEPTH (m)	R.L. (m)	AUGEK CASING WASH BORING CORE DRILLING	RQD ()% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	
-					Shale Cont'd.			_ : : : : :		24,30/110mm N>50	SPT]	
- - - -	10.25		(87)		Pale orange grey, orange brown iron staining, bedding ~10°.	HW				Bedding 10° Jts, 30°,PL,SM,CN,T ls(50)=0.10 MPa ls(50)=0.12 MPa	x -	
- 11 - -					Dark grey to grey, carbonaceous in parts, minor interbeds of fine to medium pale grey in parts. Occasional thin discontinuous coal and mudstone interlaminations. Bedding ~10°.					Jt, 50°,PL,SM,CN, T Is(50)=0.14 MPa	x -	
- - - - - 12			100 (93)		Defects mainly dip 10°, 30°, 50°. Defect surfaces mainly PL, SM, CN, C or T (rehealed), occasional Un.	MW				Is(50)=0.13 MPa Jts, 50°,PL, SM, C, slickensides with coal infill 3mm thick Jt, 10°, PL, SM, slickensides, Is(50)=0.29 MPa slickensides, Is(50)=0.22 MPa	0 - - x - 0 -	
					Numerous drilling induced bedding plane partings.					coating 1mm Pale grey siltstone band	- -	
										MH strength siltstone band.		
13 	7.60		100							Is(50)=0.26 MPa Is(50)=0.28 MPa	x -	
- 14											-	
- - - - - - -											- - -	
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: BH15
Start Depth: 10.30m
Finish Depth: 13.30m
Project No: FG5404
H No: 9719



