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 17/11/05

ENGINEERING BOREHOLE

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

BOREHOLE No	<u>BH24</u>
SHEET	_ <u>1</u> _ of _ <u>2</u> _
REFERENCE No	H9758

PRO	JECT	IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION										
	ATION				Approximate Chainage 782m, 6m left of control MC					OORDINATES <u>29768.0 E; 147263.1 N</u>		
PROJECT No						D	DATE STARTED		0 <u>5</u>	DATUM _lpswich Motor	<u>way</u>	
JOB No		<u>148/1</u>	_148/ <u>1</u> 7 <u>A</u> / <u>5</u> 7		DATUM <u>AHD</u>	DATI	COMPLETED	<u>17/10/</u>	0 <u>5</u>	DRILLER <u>Drillsure</u>	- – – –	
o DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING		SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	STRENGTH SP	ACING mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
	29.40				SILT (Topsoil) Grey.						-	
-	20.70				CLAYEY SILT (Residual) Brown. Based on drillers logs only.						-	
-1	28.70 28.40				SANDY CLAY (Residual) Pale grey - brown, minor iron staining, slightly moist, hard.	CL- Cl	<u> </u>			10/50mm N>50	SPT	
- - - - - - - 2	27.20				SHALE Grey - brown. Based on drillers logs only.		+ + + + + + + + + + + + + + + + + + +				- - - - - - - - - - - - - - - - - - -	
- - - - - 3 - -					Pale grey, minor orange iron staining, fine grained, moist. Contains fragments of less weathered rock up to 10mm size. Exhibits properties of very dense Clayey Sand and Gravel.	HW	1 1 1 1 1 1			30/80mm N>50	SPT	
- - - - - - - - - - - - - - - -	25.60		(57)		Pale grey with minor brown iron staining, fine grained. Quartzose with slightly clayey matrix. Bedding generally 0°-10° with massive medium to coarse grained bands in parts. Contains some HW or shale bands.	MW-				5/0 mm HB N>50 Numerous rehealed Jts, 10°, PL, T. Is(50)=0.14 MPa Is(50)=0.78 MPa	SPT - x - 0	
- - - - -						SW				Is(50)=0.32 MPa Is(50)=0.29 MPa HW band.	X - 0 -	
- -6 - - - - -	23.58					HW				Is(50)=0.22 MPa Is(50)=0.48 MPa Shale band. Properties of hard Clay. Broken up during drilling.	0 - x -	
- - -7	22.40		89 (85)		Yellow brown iron staining below 6.8m. HW Sandstone is friable in parts.	HW				Is(50)=0.26 MPa Friable in parts. Is(50)=0.23 MPa	x -	
- - - - -	22.40				Most defects parallel bedding or are drilling induced BPP's. Defect surfaces are mostly PL, SM, C. Some surfaces have slight iron staining or a thin clay film.					Shale band. Dark grey, thinly laminated, 10°.	-	
8 - - - - -						MW				Is(50)=0.22 MPa Is(50)=0.20 MPa Generally massive band.	x - 0 -	
- - -9 -	20.60				Pale grey, trace iron staining. Medium grained, thin carbonaceous interlaminations in parts.					Is(50)=0.39 MPa Is(50)=0.54 MPa	x - 0 -	
10			100 (97)			sw				Is(50)=0.17 MPa Is(50)=0.24 MPa	x _ 0 -	
	MARKS	No gr	oundwate	er re	ported during drilling. Hole set up as groundwater monit	toring	point. See Addit	ional De	scrip	tive LOGGED BY		
		<u>Codin</u>	g sheet f	or <u>a</u> b	breviations.					JML		



ENGINEERING BOREHOLE FG5404 - BOREHOLES.GPJ QLD MAIN ROADS.GDT 17/11/05

ENGINEERING BOREHOLE

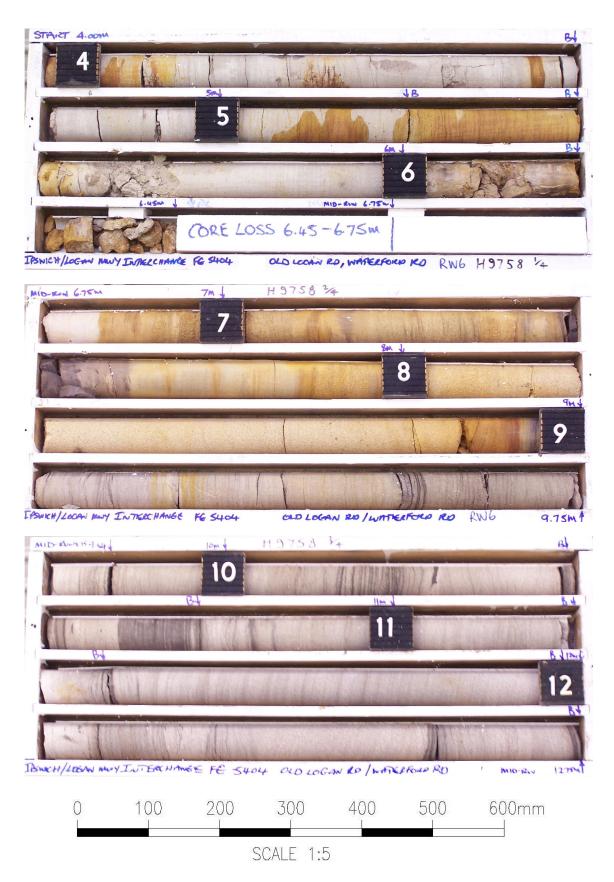
FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No	<u>BH24</u>
SHEET	_2_ of _2_
REFERENCE No	H9758

PRO	JECT	IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION												
LOC	ATION	N Retaining Wall 6, Approximate Chainage 782m, 6m left of control MCJ1-C. COORDINATES 29768.0 E; 147263.1 N												
PROJECT No FG5404 _								DATE STARTED _17/10/0				DATUM _lpswich Motorway		
JOB No <u>148/17A/57</u>			DATUM <u>AHD</u>	DAT	E C	OMPLETE	ED _	<u>17/10</u>	<u>)/05</u>	DRILLER <u>Drillsure</u>				
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING		SAMPLE	MATERIAL DESCRIPTION	USC	STI	NTACT RENGTH	DEFE SPAC (mi		GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	
_10	19.60	111	REC 76	0)	Sandstone Cont'd.	1212	1			+			" -	
- 11					Few defects. Occasional bands of mudstone or carbonaceous shale up to 60mm thick. Generally massive with faint bedding and occasional carbonaceous interlaminations between 10.7 and 13.62m.							Siltstone/Mudstone band 20mm thick Siltstone/Mudstone band, 5°. Is(50)=0.69 MPa Is(50)=1.08 MPa	x - 0 - 1	
-12 - - - - - - - 13 - - -			100 (94)			SW						Is(50)=1.07 MPa Jt, 5-10°, PL, SM-SR, C. Thin Carb coat, trace Fest. Defect, DI? 5°, PL, SM, Carb laminations. 25mm Mudstone band ls(50)=0.78 MPa Jt, 10°, Un, SM, Carb coat. Mudstone band 30mm thick. Is(50)=1.18 MPa Mudstone band, 5-10° Jt, 80°, PL, SM, C. Is(50)=1.70 MPa	x	
-14	14.41 14.00		100		Predominantly Siltstone with fine Sandstone bands between 14.35 and 15.19m. MUDSTONE with Carbonaceous SHALE Interbeds Dark grey, minor fine Sandstone.							Mudstone band, 10°, carbonaceous in parts. Is(50)=0.51 MPa Is(50)=1.30 MPa 2 Jts, 5-10°, PL, St, thin coal infill. Jt, 10°, PL, SM, O, trace CLy film.	x -	
-16 17 17 18 19 19	EMARKS	. No gr		er re	Borehole terminated at 15.6m	oring	poir	it. See A	dditior	nal D	escrip	tive LOGGED BY		
K	LIVIARNO				ported during drilling. Hole set up as groundwater monli obreviations.	onig	μυιΓ	ii. <u>See Al</u>	uuilior	iai D	escrip	JML		
		Coair	ig sileet I	u <u>a</u> t	DDIEVIALIUIIS.									

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

Borehole No: BH24
Start Depth: 4.00m
Finish Depth: 15.60m
Project No: FG5404
H No: 9758



Project: <u>Ipswich Motorway / Logan Motorway Interchange</u>

Borehole No: BH24
Start Depth: 4.00m
Finish Depth: 15.60m
Project No: FG5404
H No: 9758



