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ENGINEERING BOREHOLE

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

BOREHOLE No	<u>BH3</u>
SHEET	<u>1</u> of <u>2</u>
REFERENCE No	<u> </u>

LOGGED BY

JML

PROJECT No FG54		<u>G5404</u>		SURFACE R.L27.40		DATE STARTED _29/07		/05	DATUM <u>lpswich Moto</u>	rway
3 No	<u>148/</u>	<u>17A/57</u>		DATUM <u>AHD</u>	DAT	E COMPLET	ED <u>29/07</u>	/0 <u>5</u>	DRILLER <u>Drillsure</u>	
R.L. (m) 27.40	AUGER CASING WASH BORING CORE DRILLING		SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm) 0000000000000000000000000000000000	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMDI ES
27.40		(97)		SANDSTONE Pale grey-white with minor iron staining. Fine grained, varies to chalky siltstone in parts. Exhibits engineering properties of very dense Clayey Sand and Gravel. Red-brown iron staining in parts, fine grained. Relict rock structure and subhorizontal laminations visible. Pale grey with red-brown iron stained bands. Discoloured yellow brown down to 8.25m.	HW				12,24,30/100mm N>50 23,30/100mm N>50 Is(50)=0.06 MPa Is(50)=0.06 MPa Is(50)=0.06 MPa Is(50)=0.06 MPa UD=2.28 t/m MC=11.3%	C
19.15		<u>100</u> (96) <u>100</u> (100)		Fine to medium grained with occasional medium to coarse grained massive bands up to 0.9m thick. Generally faint bedding 5-10° often indicated by thin wispy carbonaceous interlaminations. Defects mostly 5-10°, 20°, 65°, 70°, 80°. Most deferct surfaces are PL, SM-SR, C, CN or occasionally with a thin clayey film. There also appears to be numerous drilling induced bedding plane partings throughout. Minor yellow brown iron staining in parts. As above.	MW				Is(50)=0.12 MPa Is(50)=0.10 MPa Jt, 10°, Un, SR, O, CN, Fest. Jt, 10°, PL, SM,C,CNIs(50)=0.19 MPa Is(50)=0.46 MPa Jt, 10°, PL, SR, C, CLy infill to 20mm thick. CL seams 5°,20mm Is(50)=0.32 MPa thick. Jts 65° 80°, PL. SR, SM, O, T Jt, 65°, PL, SM, O, CN, FeSt Is(50)=0.67 MPa Jt, 60°, St, CN, C. Jt, Un, SR, C-T. Jt, 20°, PL, SR, C, Is(50)=0.06 MPa oxide stains and Is(50)=0.06 MPa oxide stains and Is(50)=0.06 MPa Is(50)=0.17 MPa Is(50)=0.18 MPa Is(50)=0.24 MPa	

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



ENGINEERING BOREHOLE

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

BOREHOLE No	<u>BH3</u>
SHEET	_2_ of _2_
REFERENCE No	<u>H9654</u>

PRO	JECT										
	ATION	Between Pier 3 and Pier 4, Approximate Chainage 118m, about 3m left of control MCK1-C. COORDINATES 29675.1 E; 147253.5 N								<u> </u>	
PRO	JECT No				SURFACE R.L27.40		ATE START				way
JOB I	No	_148/	<u>17A/57</u>		DATUM <u>AHD</u>	DAT	E COMPLET	ED <u>29/07</u>	/05	DRILLER <u>Drillsure</u>	
10 DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORF DRIITING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
	17.40	11			Sandstone Cont'd.					ls(50)=0.24 MPa	x
					Trace of iron staining below 11m. Occasional interbands of shale up to 40mm thick.			· · · · · · · · · · · · · · · · · · ·		Is(50)=2.63 MPa	0 - - - -
- - 11 - -					Below 11.5m, increasing occurrence of thin carbonaceous interlaminations parallel to bedding.					Is(50)=0.85 MPa	0 -
-			100 (97)		Below 12.5m, occasional interbands of mudstone		· · · ·				-
- 12					up to 40mm thick.	sw				Is(50)=0.21 MPa Is(50)=0.56 MPa Is(50)=0.70 MPa Is(50)=0.66 MPa	x - 0 - 0 -
	13.70				SANDSTONE and MUDSTONE Interbeds					Is(50)=0.40 MPa Is(50)=0.60 MPa - HW Carb mudstone band 30mm thick 5°. Is(50)=0.37 MPa Is(50)=0.18 MPa	x - 0 x - 0
- 14		_	100 (71)		Grey and dark grey, fine grained, bedding						
- - - - - - 15 - -					5-10°. Carbonaceous in parts. Defects: as before. Some drilling induced partings.	HW				Jt, 30°, PL, T. Jts, 60°, PL, SR, O, CL film 70°-80° Cu, SR, O, CL film Numerous closely spaced jts. Int. 2x70° & BPPs, PL, SR, O, thin CL coat or weathered infill. Close fracturing may be drilling induced.	
T 16/11/05		-	100 100 (0)	_						Is(50)=0.51 MPa HW carb mudstone _Is(50)=0.34 MPa band, resembes hard clay.	0 - X -
19 19 19 19 19 10 10 10 10 10 10 10			(100)	1		sw				- Bedding 5°. Is(50)=0.41 MPa Is(50)=0.81 MPa	X -
17 - 17 										ls(50)=0.63 MPa ls(50)=1.26 MPa	x . 0 -
	9.58		100							Jt, 60°, PL, SR, C, CN. Jt. 60°, PL, SM, C, CN	-
	9.00		100		Borehole terminated at 17.82m						-
ENGINEERING BOREHOLE FG5404 - BOREHOLES.GPJ QLD MAIN ROADS.GDT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											
							· · · · · · ·				-
		N=						tiono			-
RE	EMARKS	<u> NO g</u>		<u>er re</u>	ported during drilling. See Additional Descriptive Coding	<u>snee</u>	tor apprevia			_ LOGGED BY JML	

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Ipswich Motorway / Logan Motorway Interchange

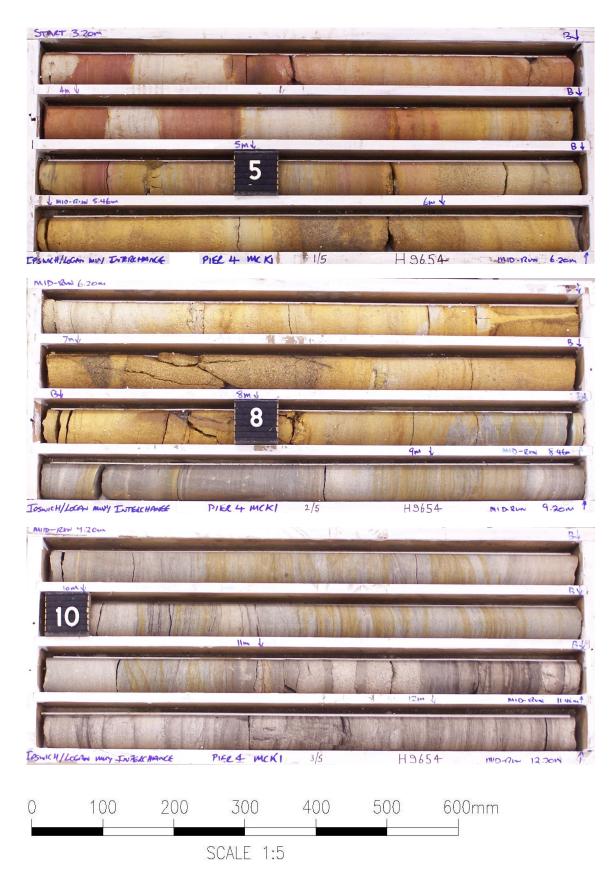
Project:

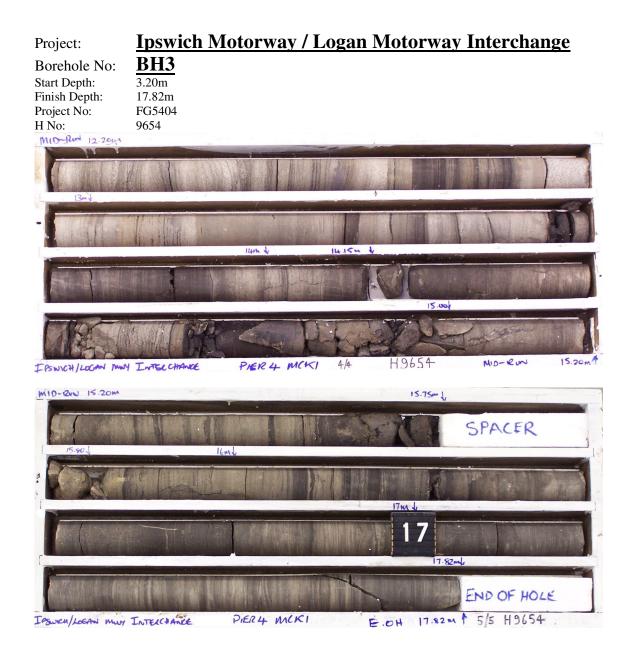
<u>BH3</u>

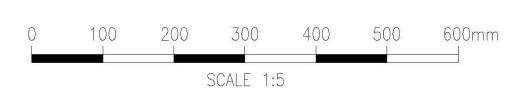
Start Depth: Finish Depth: Project No: H No:

Borehole No:

3.20m 17.82m FG5404 9654







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