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## ENGINEERING BOREHOLE

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

BOREHOLE No	<u>BH37</u>
SHEET	_ <u>1</u> _ of _ <u>2</u> _
REFERENCE No	<u>H9732</u>

	<u>1P3V</u>			RWAY / LOGAN MOTORWAY GEOTECHNICAL	I <u>NVE</u>	<u>SIIGATION</u>					
	Berth	a <u>St Op</u>	ass.	Near Pier 1, Approximate Chainage 12890m, 6m	left_o	t control MC2	<u>U.                                    </u>	CC /or	ORDINATES 28584.91	<u>=; 146932.6 N</u>	<u>N</u> -
	1/9/*	<u>FG5404</u>		SURFACE R.L1.00		DATE STARTED <u>15/08/05</u>			DATUM <u>Ipswich Moto</u>		
	_140/_	<u>II A 51</u>			DAI		D <u>15/06</u>	05			
R.L. (m)	AUGER CASING MASH BORING CORE DRILLING	RQD ()% CORE	SAMPLE	MATERIAL DESCRIPTION	JSC WEATHERING	INTACT STRENGTH 缶ミェミンゴゴ	DEFECT SPACING (mm)	<b>GRAPHIC LOG</b>	ADDITIONAL DA AND TEST RESULT	NTA TS	
11.00		KLC //	0,	ASPHALT and ROAD BASE				0			Ť
10.40				SILT and GRAVEL (Fill) Grey, moist. Very dense.	_				1	5/80mm HB	
0.01				CONCRETE			· · · · · ·		Layer of concrete from old	d road. N>50	Γ
9.50				SILTY CLAY (Fill)	_						
				stains, moist. Contains some gravel up to 15mm size. Firm.			· · · · · · · · · · · · · · · · · · ·			1,2,2 N=4	
							····································			2,2,3	
7 10										N=5	
7.10				SILTY CLAY (Alluvium)		1	· · · · · ·		_	PI=12 LL=48	
				Dark brown - black, organic, intermediate plasticity, moist. Very stiff.	CI- OL				L W PP(Su	D=1.46 t/m D=1.90 t/m <sup>3</sup> MC=29.8% ) = 196 KPa	
5.60							.         .         .         .         .           .         .         .         .         .         .           .         .         .         .         .         .           .         .         .         .         .         .           .         .         .         .         .         .           .         .         .         .         .         .           .         .         .         .         .         .           .         .         .         .         .         .           .         .         .         .         .         .         .				
				Grey-brown, fine grained, moist. Loose - medium dense.						3,4,5 N=9	
					sc						
										9,14,14 N=28	
2 50									Minor gravel.		
				SILTY CLAY (Alluvium) Grey, minor brown iron stains, moist. Trace gravel. Stiff.	CL-					3,6,7 N=13	
1.00									5/0m	m HB N>50	
			•			·				00	-

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## ENGINEERING BOREHOLE

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

BOREHOLE No	<u>BH37</u>
SHEET	_ <u>2_</u> of _ <u>2</u> _
REFERENCE No	<u>H9732</u>

JML

PROJECT	<u>IPS</u> V	VICH MC		<u>RWAY / LOGAN MOTORWAY GEOTECHNICAL I</u>	NVES	<u>STIGATION</u>				
LOCATION	ATION <u>Bertha St O'pass</u>			Near Pier 1, Approximate Chainage 12890m, 6m	om left of control MC20.		С	OORDINATES	<u>N</u>	
PROJECT № <u>FG5404</u>			SURFACE R.L. <u>11</u> .00	DATE STARTED _15/0		D <u>15/08</u>	05	DATUM <u>lpswich Motor</u>		
JOB No	<u> 148/1</u>	<u>148/17A/57</u>		DATUM <u>AHD</u>	DATE COMPLETED _15/0		D <u>15/08</u>	08/05	DRILLER <u>Drillsure</u>	
(m) (m) DEPTH	R.L. (m) WITH WINDER WIN		AMPLE	MATERIAL DESCRIPTION	JSC VEATHERING	INTACT STRENGTH エチェをコンゴ	DEFECT SPACING (mm)	RAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	AMPLES ESTS
10 1.00	<b>4</b> 0≤0	(86)	S	SANDSTONE	> ≤			0		
0.25		(00)		Pale grey with some yellow brown iron staining throughout.	sw				Is(50)=0.94 MPa Slightly silicified. Is(50)=1.15 MPa	A X A O
				clayey matrix in parts. Occasional MW siltstone bands or MW-HW clayey sandstone bands. Some thin carbonaceous interlaminations in parts. Bedding ~10°.	MW				Is(50)=0.11 MPa Is(50)=0.29 MPa	a x a o
- 12				Deffects mostly dip 10°, occasionally 70°. Most defect surfaces are PL, SM-SR, C or O, CN. Occasionally defect surfaces have a clay infill up			· · · · · · · · · · · · · · · · · · ·		ls(50)=0.16 MPa ls(50)=0.28 MPa	a x a o
1.89		100 (81)		to 5mm thick or minor iron stains.	SW				ls(50)=0.96 MPa ls(50)=0.66 MPa HW clayey band.	a x a o
2.65				As before.	MW- HW		<ul> <li>a</li> <li>b</li> <li>b</li> <li>c</li> <li>c</li> <li>d</li> <li>d&lt;</li></ul>		HW clayey band. Is(50)=0.05 MPa Is(50)=0.08 MPa	a x a o
- - 				As before.					ls(50)=1.18 MPa ls(50)=0.91 MPa	a x a o
- - - - 15 - 4 10		100			SW				Jt, 10°, PL, CL infill 5mm thick. Jts, 10°, surrounding HW CLy weathering (DI?). Is(50)=0.44 MPa	a x
ENGINEERING BOREHOLE FG5404 - BOREHOLES GP1 0LD MAIN ROADS GD1 17/11/05				Borehole terminated at 15.1m					IS(50)=0.44 MPa IS(50)=1.57 MPa	

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# Ipswich Motorway / Logan Motorway Interchange **BH37**

Project:

H No:

#### Borehole No: 10.00m Start Depth: Finish Depth: Project No:

15.10m FG5404 9732





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