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ENGINEERING BOREHOLE

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

BOREHOLE No BH21
SHEET 1 of 2
REFERENCE No H9652

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION
LOCATION Near Abutment B, Approximate Chainage 750m, 2m left of control MCJ1-C. COORDINATES 29795.9 E; 147279.5 N
PROJECT No FG5404 SURFACE R.L. 27.90 DATE STARTED 22/07/05 DATUM Ipswich Motorway
JOB No 148/17A/57 DATUM AHD DATE COMPLETED 22/07/05 DRILLER Drillsure

DEPTH (m)	R.L. (m)	AUGER 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	27.90					SILTY CLAY / CLAYEY SILT (Topsoil) Brown - grey.						
1	27.40					SANDSTONE / SILTSTONE Pale grey, orange iron staining, dry. Exhibits engineering properties of very dense, clayey silt with sand and gravel. Pale grey white, minor iron staining, dry, chalky. Laminations and relict structure visible. Very dense.	XW				3,15/100mm N>50	SPT
2	25.40					SANDSTONE Pale grey discoloured yellow-brown, fine grained clayey matrix. Core is generally friable with some hard iron stained bands.	XW-HW				26,30/50mm N>50	SPT
3			(0) 100 (33)									
4	23.55										Jt, 50°, PL, SR, O, CN	
5						Pale grey - white, discoloured yellow brown, minor iron staining. Intense orange brown iron staining below 5.3m. Fine grained quartz with a clayey matrix. Numerous thin carbonaceous laminations throughout.					Jt, 70°, PL, SR, CN Bedding ~10° Is(50)=0.03 MPa Is(50)=0.10 MPa WD=2.24 t/m ³ MC=12%	x o CU TRI
6			77 (79)			Occasional medium grained or pebbly bands and occasional XW-HW clayey shale bands. Bedding ~5°-10°.					Is(50)=0.15 MPa Is(50)=0.10 MPa HW band, siliceous pebbles 5mm Bedding 10°	x o
7						Defects mostly dip 5°, 10°, 50°, 70°. Defect surfaces are mostly PL, SM-R, C or O, CN occasionally with thin CL film or infill. Numerous bedding plane partings (possibly drilling induced) throughout.					Is(50)=0.09 MPa Is(50)=0.12 MPa Jt, 5°-10°, PL, SM, C thin brown CL film	x o
8			100 (67)				HW				Is(50)=0.05 MPa Is(50)=0.04 MPa WD=2.25 t/m ³ MC=8.8% 3 Jts 50°-70° PL, SR-R, O, 2mm XW infill Jts, subvert 50°, PL, SR, O, CL coat HW shale band 10° Bedding 5°-10° Is(50)=0.04 MPa Is(50)=0.33 MPa	x o CU TRI
9											Jts 10°, PL-Un, C, SM-SR, black oxide stains Is(50)=0.07 MPa Is(50)=0.11 MPa	x o
10											3 Jts, PL SR, O dark oxide stains 3 Jts 10°, 30°, PL, dark oxide stains Is(50)=0.29 MPa Is(50)=0.40 MPa	x o

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

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Department of
Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH21

SHEET 2 of 2

REFERENCE No H9652

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Abutment B, Approximate Chainage 750m, 2m left of control MCJ1-C. COORDINATES 29795.9 E; 147279.5 N

PROJECT No FG5404 SURFACE R.L. 27.90 DATE STARTED 22/07/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 22/07/05 DRILLER Drillsure

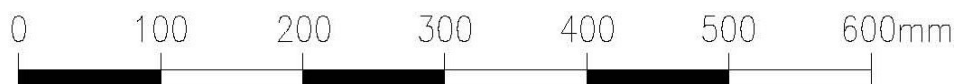
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)					GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	H	M	J	L	VL	EL	20	60			
10	17.90					Sandstone Cont'd. As before.	HW											Jt, 10°, PL, SR, C. Clay seam 5mm thick.	x o	
	17.70					Pale grey, medium grained with numerous dark grey wispy carbonaceous laminations, occasional HW clayey bands.	MW-SW											Is(50)=0.21 MPa Is(50)=0.33 MPa		
				100 (76)														Jt, 70°, PL, SM-SR, T, 2mm clay infill 5mm vert. displ.	x	
11	16.70			100														HW clayey band Is(50)=0.10 MPa	o	
						Borehole terminated at 11.2m												Is(50)=0.08 MPa		
12																				
13																				
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ENGINEERING BOREHOLE FG5404 - BOREHOLES.GPJ QLD MAIN ROADS.GDT 17/11/05

Project: **Ipswich Motorway / Logan Motorway Interchange**
 Borehole No: **BH21**
 Start Depth: 2.90m
 Finish Depth: 11.20m
 Project No: FG5404
 H No: 9652



SCALE 1:5