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**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 01/72-2004

BOREHOLE No **BH5**

SHEET **1** of **2**

REFERENCE No **H9554**

PROJECT **GATEWAY UPGRADE PROJECT - GATEWAY BRIDGE FOUNDATION INVESTIGATION**

LOCATION **PIER 2 - DOWNSTREAM/RIGHTHAND SIDE**

COORDINATES **10499.4 E; 167375.6 N**

PROJECT No **FG5388**

SURFACE R.L. **8.52**

DATE STARTED **20/04/05**

DATUM **SETP**

JOB No **0405**

DATUM **AHD**

DATE COMPLETED **20/04/05**

DRILLER **GEO DRILLING PTY LTD**

DEPTH (m)	R.L. (m)	ALGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)				GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
									BT	TM	VL	EL	20	50	100	200	500			
0	8.52					RESIDUAL GREY SILT		RS										Driller's record only.		
	8.22					SANDSTONE XW rock		XW										Driller's record only.		
	7.72																			
1	7.47				(97)	SILTSTONE Pale grey to grey, fine grained, thinly laminated, low to medium strength.		MW												
						SANDSTONE SW : Pale grey to white, fine to medium grained, mainly laminated to slightly massive, very low to mainly low strength with some high strength bands.												Is(50)=0.05 MPa Is(50)=0.12 MPa Is(50)=0.17 MPa Is(50)=0.12 MPa Is(50)=0.12 MPa	x o x o o	
						Defects : Generally rare. -Occasional drilling induced lamination partings <15° (1-2/m)												Is(50)=0.26 MPa Is(50)=0.18 MPa Is(50)=0.07 MPa Is(50)=0.06 MPa	x o x o	
					100 (100)	Some thin mudstone interbeds from 1.8m to 2.25m, and 3.8m to 5.05m		SW										Is(50)=0.02 MPa Is(50)=0.17 MPa Is(50)=0.10 MPa Is(50)=0.21 MPa Is(50)=0.05 MPa Is(50)=0.04 MPa	x o x o x o	
																		Is(50)=0.02 MPa Is(50)=0.06 MPa Is(50)=0.07 MPa Is(50)=0.06 MPa Is(50)=0.09 MPa Is(50)=0.12 MPa Is(50)=0.38 MPa Is(50)=0.07 MPa Is(50)=0.69 MPa Is(50)=0.59 MPa Is(50)=0.31 MPa Is(50)=0.28 MPa Is(50)=0.47 MPa Is(50)=0.69 MPa	x o o x x o o x o x o x o	
	4.47				100 (92)	MW : Pale grey to mottled red brown, medium to coarse grained, mainly massive, low to mainly medium strength.												Is(50)=0.17 MPa Is(50)=0.40 MPa Is(50)=0.57 MPa Is(50)=0.74 MPa Is(50)=0.36 MPa Is(50)=0.31 MPa Is(50)=0.58 MPa Is(50)=0.19 MPa	x x x o o x o	
						Defects : Generally rare. - Drilling induced lamination partings <10° (1/m) - Occasional joints @ 30° (1/2m)														
					100 (93)	Red brown ironstaining in and around defects.		MW												
																		Is(50)=0.11 MPa Is(50)=0.09 MPa	x o	
						INTERBEDDED MUDSTONE AND SANDSTONE. SANDSTONE DOMINANT SW: Pale grey and dark grey banded, fine to medium grained, interbedded/laminated, mainly medium to high strength.												Is(50)=0.06 MPa Is(50)=0.39 MPa	x o	
						Defects : Lamination partings <25° (2-6/m) Occasional subvertical joints @ 75° (1/3m)												Is(50)=0.48 MPa Is(50)=1.06 MPa Is(50)=0.41 MPa Is(50)=1.13 MPa	x o x o	
					100 (80)			SW										Is(50)=0.61 MPa Is(50)=1.56 MPa	x o	
																		Is(50)=0.88 MPa Is(50)=0.90 MPa	x o	
																		Is(50)=0.96 MPa Is(50)=0.84 MPa Is(50)=0.58 MPa Is(50)=1.44 MPa Is(50)=0.54 MPa	x o x o x	
10	-1.48					SANDSTONE SW : (As below).		SW												

BOREHOLE WITH LITHOLOGY: 24_5_2005 - BORELOGS FOR SOUTHERN APPROACH PIERS AND ABUT A.G.P.J. ENGINEERING BOREHOLE 09_04_GDT_31/08/05

REMARKS

LOGGED BY
A. DISSANAYAKE (DISS)



**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F.GEOT 017/2-2004

BOREHOLE No BH5

SHEET 2 of 2

REFERENCE No H9554

PROJECT GATEWAY UPGRADE PROJECT - GATEWAY BRIDGE FOUNDATION INVESTIGATION

LOCATION PIER 2 - DOWNSTREAM/RIGHTHAND SIDE

COORDINATES 10499.4 E; 167375.6 N

PROJECT No FG5388

SURFACE R.L. 8.52

DATE STARTED 20/04/05

DATUM SETP

JOB No 0405

DATUM AHD

DATE COMPLETED 20/04/05

DRILLER GEO DRILLING PTY LTD

DEPTH (m)	R.L. (m)	RQD (%)	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
												ALCER CASING WASH BORING CORE DRILLING
10	-1.48		SANDSTONE SW : Pale grey to white, fine to medium grained, mainly laminated to slightly massive, mainly medium to high strength. Defects : Generally rare. -Occasional drilling induced lamination partings <10° (1-2/m) - Altered broken zone between 10.46m to 10.82m. BASALT SW : Black, fine grained, thinly laminated, fragile, medium to high strength. Defects : Drilling induced flow partings <10°. Borehole terminated at 11.5m									
11	-2.66				SW						Is(50)=0.06 MPa Broken zone healed by coal infillings.	o
	-2.98	100			SW						Is(50)=1.14 MPa	x
12												
13												
14												
15												
16												
17												
18												
19												
20												

REMARKS _____

LOGGED BY
A. DISSANAYAKE (DISS)

Project: **Gateway Upgrade Project - Gateway Bridge**

Borehole No: **BH 5**

Start Depth: 0.8m

Finish Depth: 11.50m

Project No: FG 5388

H No: 9554



Project: **Gateway Upgrade Project - Gateway Bridge**

Borehole No: **BH 5**

Start Depth: 0.8m

Finish Depth: 11.50m

Project No: FG 5388

H No: 9554

