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**Queensland  
Government**

Department of  
Main Roads

## ENGINEERING BOREHOLE

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

BOREHOLE No **BH7**

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

REFERENCE No **H9556**

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

LOCATION **PIER 4 - DOWNSTREAM/RIGHTHAND SIDE**

COORDINATES **10436.5 E: 167502.9 N**

PROJECT No **FG5388**

SURFACE R.L. **8.76**

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)	AUGER CASING WASH BORE DRILLING CORE REC %	ROD ( ) %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	8.76				<b>PROBABLE SANDSTONE FINE TO MEDIUM GRAINED MASSIVE POORLY CEMENTED SEDIMENTARY ROCK</b> XW : Generally exhibits engineering properties of pink grey to mottled red, moist to mainly dry, medium dense silty sand.  Fine to medium grained sand.		XW				Grey silt slope wash (200mm thick) on the surface above weathered bedrock	
1												
2	6.56											
3	5.96		(100)		<b>INTERBEDDED SANDSTONE &amp; MUDSTONE - FINE TO MEDIUM GRAINED INTERBEDDED / LAMINATED SEDIMENTARY ROCK (SANDSTONE DOMINANT)</b> HW : Dark grey to black, dry hard sandy silt rapidly grading into low strength rock. SW : Grey to black banded, fine to medium grained, interbedded/laminated mainly low to medium strength.		HW				26,30/70 N>50	SPT
4	5.36		100				SW				Is(50)=0.30 MPa Is(50)=0.10 MPa	o x
5	4.50		100		<b>SANDSTONE FINE TO MEDIUM GRAINED MASSIVE POORLY CEMENTED SEDIMENTARY ROCK</b> SW : Pale grey to white, fine to medium grained mainly laminated to slightly massive, low to mainly medium strength.		SW				Is(50)=0.51 MPa Is(50)=0.36 MPa Is(50)=0.26 MPa Is(50)=0.09 MPa	x o o x
6	3.26		100		<b>INTERBEDDED SANDSTONE &amp; MUDSTONE - FINE TO MEDIUM GRAINED INTERBEDDED / LAMINATED SEDIMENTARY ROCK (MUDSTONE DOMINANT)</b> SW : Dark grey to black banded, fine to medium grained, mainly medium strength.		SW				Is(50)=0.24 MPa Is(50)=0.02 MPa	o x
7	2.93		100		<b>SANDSTONE (As above)</b> SW : Pale grey to grey, mainly laminated to slightly massive, fine to medium grained, low to mainly medium strength.		SW				Is(50)=0.68 MPa Is(50)=0.47 MPa	x o
8	2.31		100		<b>SILTSTONE FINE GRAINED THINLY LAMINATED SEDIMENTARY ROCK</b> SW : Pale grey, fine grained, thinly laminated mainly medium strength.		SW				Defects : - Drilling induced lamination partings <20° - Joints @ 70° to 90° (1-3/m) - Some irregular cracks in the area between 5.83 and 6.10m.	
9	1.28		100		<b>INTERBEDDED SANDSTONE &amp; MUDSTONE - FINE TO MEDIUM GRAINED INTERBEDDED / LAMINATED SEDIMENTARY ROCK (SANDSTONE DOMINANT)</b> SW : Dark grey to black banded, fine to medium grained, medium to high strength. Minor faulting features associated with near vertical (75°-90°) joints from 6.85m to 7.5m.		SW				Defects : Drilling induced lamination partings <10° (1-3/m) Joints @ 75° to 90° (1-2/m)	
10	-1.24		100		<b>SANDSTONE MEDIUM TO COARSE GRAINED MAINLY MASSIVE TO SLIGHTLY LAMINATED, WELL CEMENTED SEDIMENTARY ROCK</b> SW : Pale grey to white, medium to coarse grained, mainly massive to slightly laminated, low to mainly medium strength.		SW				Is(50)=0.62 MPa Is(50)=0.31 MPa	x o
											Is(50)=0.52 MPa Is(50)=0.53 MPa	x o

REMARKS

LOGGED BY  
**A. DISSANAYAKE (DISS)**



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## ENGINEERING BOREHOLE

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

BOREHOLE No BH7

SHEET 2 of 2

REFERENCE No H9556

PROJECT GATEWAY UPGRADE PROJECT - GATEWAY BRIDGE FOUNDATION INVESTIGATION

LOCATION PIER 4 - DOWNSTREAM/RIGHTHAND SIDE

COORDINATES 10436.5 E; 167502.9 N

PROJECT No FG5388

SURFACE R.L. 8.76

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)	USER CASH BORING 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
10	-1.24					<b>SANDSTONE</b> SW : (As above). Some carbonaceous and coal seams <20mm. Core between 10.05m and 10.95m appears to be erodable.							Is(50)=0.30 MPa Is(50)=0.62 MPa	x o	
11	-2.19		100			Borehole terminated at 10.95m		SW					Is(50)=0.30 MPa Is(50)=0.20 MPa	x o	
12															
13															
14															
15															
16															
17															
18															
19															
20															

REMARKS

LOGGED BY  
A. DISSANAYAKE (DISS)

Project: Gateway Upgrade Project - Gateway Bridge

Borehole No: BH 7

Start Depth: 2.80m

Finish Depth: 10.95m

Project No: FG 5388

H No: 9556

