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**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH9

SHEET 1 of 1

REFERENCE No H9772

PROJECT Caboolture River Bridge Foundation Investigation
 LOCATION Pier 8 - 15.2m left (along skew) of existing northbound bridge C/L COORDINATES 497548.6 E; 7003602.0 N
 PROJECT No FG5439 SURFACE R.L. -1.85 DATE STARTED 27/10/05 DATUM MGA94 Zone 56
 JOB No 25/10A/60C DATUM AHD DATE COMPLETED 27/10/05 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	CASING WASH BORING CORE DRILLING	RQD (%)	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
						EH	VH	HM	JL	VL	EL	20	60			
0	-1.85			Silty CLAY (Alluvium): Dark grey-brown, moist, firm, high plasticity, some fine sand, highly organic.	CH											
1	-3.08			SANDSTONE: HW: Orange-brown, medium grained, very low strength, subhorizontal bedding laminations visible.										22,30/70,- N>50	SPT	
2																
3					HW									16,30/130,- N>50	SPT	
4				50mm thick pale grey siltstone band in sample.										7,30/140,- N>50	SPT	
5																
6	-7.60		(86)	MW: Pale orange-brown, medium grained, medium strength. Defects: Occasional subhorizontal bedding partings.	MW									-7.6 Trier Is(50)=0.49 MPa Is(50)=0.61 MPa Is(50)=0.89 MPa	x o o	
7														Is(50)=0.24 MPa Is(50)=0.29 MPa	x o	
8	-9.35			SW: Light grey, medium grained, medium to high strength, occasional thin dark brown subhorizontal carbonaceous laminae. Defects: Occasional subhorizontal bedding partings.	SW								7.89-8.17m: Conglomerate band.	Is(50)=0.65 MPa Is(50)=2.40 MPa	x o	
9	-10.60		100	Borehole terminated at 8.75m												
10																

REMARKS

LOGGED BY
A O'Rourke

Project: FOUNDATION INVESTIGATION FOR THE WIDENING OF THE CAPTAIN WHISH BRIDGES (NORTH AND SOUTHBOUND) – CABOOLTURE RIVER

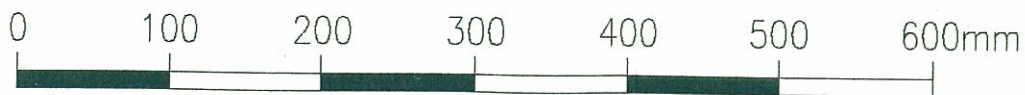
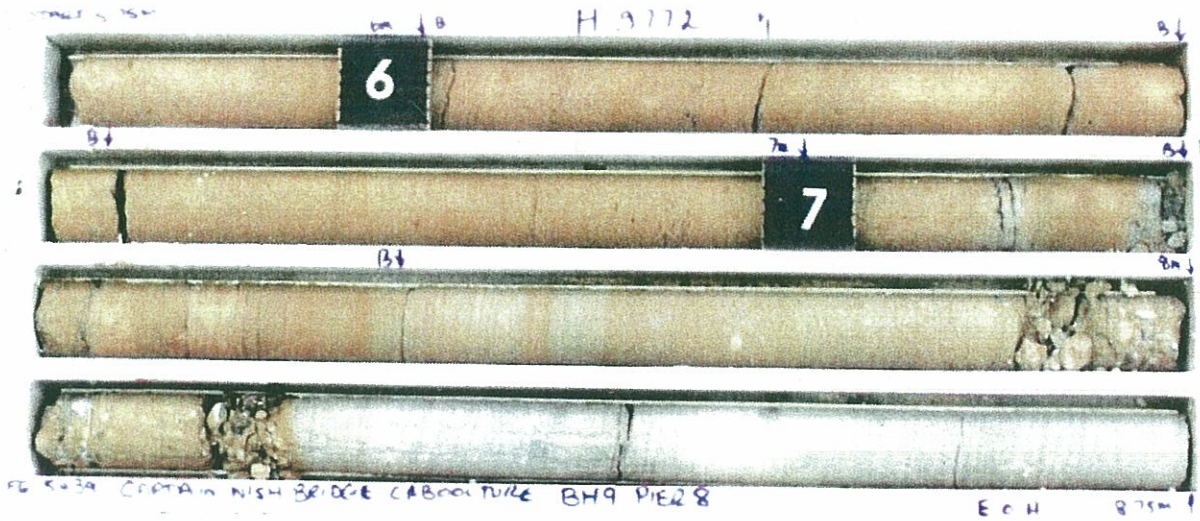
Borehole No: BH9 Pier 8

Start Depth: 5.75m

Finish Depth: 8.75m

Project No: FG5439

H No: 9772



SCALE 1:5

F:GEOT043/1

Point Load Strength Index - Test Report

Project: CABOOLTURE RIVER BRIDGE

Project No: FG 5439

Date Sampled 27/10/05

Feature: PIER 8

Sample Type: NMLC ROCK CORE

Date Tested 6/12/05

Report No. FG 5439/1/GS05/811/AS4133.4.1

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS05/811-A	BH9	6.06	D	0.49	0.49	M	Sandstone
GS05/811-B	BH9	6.09	A	0.64	0.61	M	Sandstone
GS05/811-C	BH9	6.53	A	0.87	0.89	M	Sandstone
GS05/811-D	BH9	7.16	D	0.24	0.24	L	Sandstone
GS05/811-E	BH9	7.19	A	0.34	0.29	L	Sandstone
GS05/811-F	BH9	8.45	D	0.65	0.65	M	Sandstone
GS05/811-G	BH9	8.48	A	2.60	2.40	H	Sandstone

Sample Remarks

* D - Diametral; A - Axial; B - Block; I - Irregular;

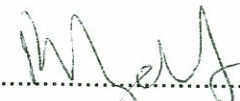
** EL - Extremely Low; VL - Very Low; L - Low; M - Medium; H - High; VH - Very High; EH - Extremely High (taken from AS1726 Table 8A)

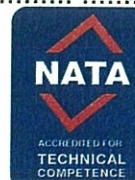
Remarks / Variations to Test Procedures:

Test Method: AS4133.4.1

Software Version 2.03 April 2005

Client Name: RS&E STRUCTURES DIVISION
Client Address: PO BOX 1412 SPRING HILL 4001

Signatory  6/12/05
(Peter Reynolds)



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