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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     BH17    

SHEET     1     of     2    

REFERENCE No     H9801    

PROJECT     Caboolture River Bridge Foundation Investigation    

LOCATION     Pier 6 - 14.6m right (along skew) of existing southbound bridge C/L     COORDINATES     497600.2 E; 7003574.7 N    

PROJECT No     FG5439     SURFACE R.L.     3.22     DATE STARTED     22/11/05     DATUM     MGA94 Zone 56    

JOB No     25/10A/60C     DATUM     AHD     DATE COMPLETED     22/11/05     DRILLER     Drillsure Pty Ltd    

DEPTH (m)	R.L. (m)	ALGER CASING WASH BORING CORE DRILLING	ROD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS				
								EH	EH	EH	EH	EH								
0	3.22																			
0-1						<b>Clayey SAND (Alluvium):</b> Brown, moist, very loose to loose, fine to medium grained, low to medium plasticity, some organic matter throughout.										1,1,1 N=2	SPT			
1-2							SC													
2-3																	1,1,1 N=2	SPT		
3-4	-0.28					<b>Sandy Silty CLAY (Alluvium):</b> Dark grey, moist, very soft, high plasticity, some fine grained sand, organic matter throughout, trace of gravel and clayey sand lenses, and orange ironstaining.											RW,HW,HW N<1	SPT		
4-5							CH													
5-6	-1.78					<b>Clayey Gravelly SAND (Alluvium):</b> Grey-brown, moist, medium dense, medium to coarse grained, fine gravel, some medium gravel up to 10mm, medium to high plasticity clay fines.								Water loss at 5.0m.			11,9,7 N=16	SPT		
6-7							SP													
7-8	-3.33					<b>SANDSTONE:</b> HW: Pale orange-brown, ironstained, medium grained, very low strength.												30/100,- N>50	SPT	
8-9	-4.28					MW: Pale grey with some orange-brown ironstaining throughout, fine grained, medium grained below 8.1m, medium to high strength.													Is(50)=1.19 MPa Is(50)=1.48 MPa	x o
9-10	-6.16					Defects: Occasional subhorizontal bedding partings.	MW												Is(50)=0.58 MPa	o
10	-6.78					SW: Pale grey, trace of orange ironstaining, medium to coarse grained, medium to high strength.	SW												Is(50)=0.38 MPa Is(50)=1.15 MPa	x o

✓ Pile Tip - 4.5

REMARKS

LOGGED BY  
A O'Rourke



Queensland Government

Department of Main Roads

# ENGINEERING BOREHOLE

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

BOREHOLE No   BH17  

SHEET   2   of   2  

REFERENCE No   H9801  

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LOCATION   Pier 6 - 14.6m right (along skew) of existing southbound bridge C/L   COORDINATES   497600.2 E; 7003574.7 N  

PROJECT No   FG5439   SURFACE R.L.   3.22   DATE STARTED   22/11/05   DATUM   MGA94 Zone 56  

JOB No   25/10A/60C   DATUM   AHD   DATE COMPLETED   22/11/05   DRILLER   Drillsure Pty Ltd  

DEPTH (m)	R.L. (m)	ALGER 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	VI	H	M	VL	EL	20	60	200			
10	-6.78					SANDSTONE: As above. SW:	SW									9.98-10.27m: Numerous thin black coal laminae.			
	-7.55		100			Borehole terminated at 10.77m													
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

REMARKS \_\_\_\_\_

LOGGED BY  
A O'Rourke

ENGINEERING BOREHOLE CABOOLTURE R BRIDGE WIDENINGS.GPJ OLD MAIN ROADS.GDT 23/02/06



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

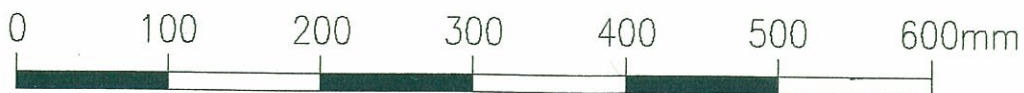
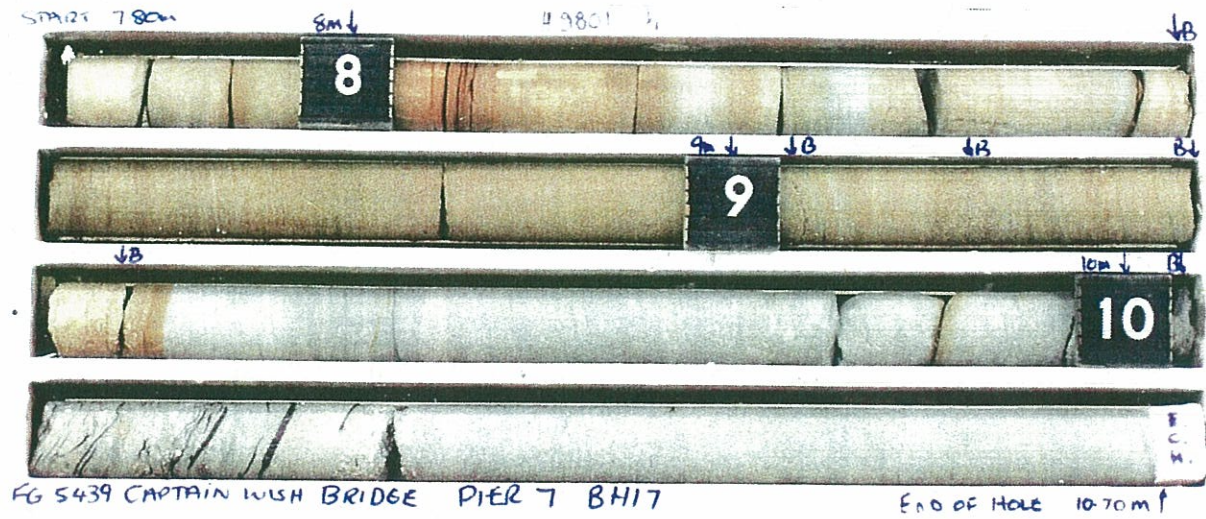
Borehole No: BH17 Pier 7

Start Depth: 7.80m

Finish Depth: 10.70m

Project No: FG5439

H No: 9801



SCALE 1:5

F:GEOT043/1



# Point Load Strength Index - Test Report

Project: CABOOLTURE RIVER BRIDGE

Project No: FG 5439

Date Sampled 22/11/05

Feature: PIER 7

Sample Type: NMLC ROCK CORE

Date Tested 14/12/05

Report No. FG 5439/16/GS05/825AS4133.4.1

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS05/825-A	BH17	7.96	D	1.20	1.19	H	Sandstone
GS05/825-B	BH17	7.99	A	1.52	1.48	H	Sandstone
GS05/825-C	BH17	9.06	A	0.59	0.58	M	Sandstone
GS05/825-D	BH17	9.58	D	0.39	0.38	M	Sandstone
GS05/825-E	BH17	9.61	D	1.70	1.15	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

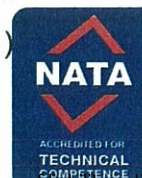
Software Version 2.03 April 2005

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

Signatory

19/12/05

( Peter W Reynolds )



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