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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     BH15    

SHEET     1     of     2    

REFERENCE No     H9799    

PROJECT     Caboolture River Bridge Foundation Investigation    

LOCATION     Pier 4 - 14.1m right (along skew) of existing southbound bridge C/L     COORDINATES     497600.8 E; 7003542.8 N    

PROJECT No     FG5439     SURFACE R.L.     4.51     DATE STARTED     21/11/05     DATUM     MGA94 Zone 56    

JOB No     25/10A/60C     DATUM     AHD     DATE COMPLETED     21/11/05     DRILLER     Drillsure Pty Ltd    

DEPTH (m)	R.L. (m)	ALUFER 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	4.51					<b>Clayey SAND (Alluvium):</b> Pale orange-brown, slightly moist, medium dense, fine grained, low to medium plasticity fines.						
1											4,6,6 N=12	SPT
2							SC					
3						Less clayey and medium grained below 2.5m.					3,2,2 N=4	SPT
4	1.01					<b>Sandy CLAY (Alluvium):</b> Grey-brown, moist, very soft, high plasticity, fine to medium grained sand, clayey sand laminations throughout, some orange-brown ironstained lenses.	CH				2,1,RW N<1	SPT
5	0.06					<b>Gravelly SAND (Alluvium):</b> Pale grey-brown, moist, loose, coarse grained, fine gravel up to 4mm.	SP					
6											5,4,4 N=8	SPT
7	-1.99					<b>Sandy GRAVEL (Alluvium):</b> Pale grey-brown, moist, loose, fine gravel, coarse grained sand.	GP				4,4,3 N=7	SPT
8												
9	-3.99					<b>SANDSTONE:</b> HW: Pale orange-brown, fine to medium grained, very low strength, subhorizontal bedding visible.	HW				30/140, N>50	SPT
10	-5.49											

✓ Pile Tip - 5.5 30/20,--

REMARKS \_\_\_\_\_

LOGGED BY  
A O'Rourke



Queensland Government

Department of Main Roads

# ENGINEERING BOREHOLE

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								EH	VI	IM	J	VL	EL	20	60	200			
10	-5.49					<b>SANDSTONE:</b> As above. MW: Pale orange-brown, fine to medium grained, medium strength.  Defects: Occasional subhorizontal bedding partings. Rare low angle joints.	MW										No sample recovery. N>50 Is(50)=0.66 MPa Is(50)=0.59 MPa	SR o	
11			(75)	100													Is(50)=0.14 MPa Is(50)=0.04 MPa	o x	
12			(91)														12.5-12.8m: Numerous black coal bands. Is(50)=0.19 MPa Is(50)=0.91 MPa	x o	
13	-7.99					SW: Pale grey, fine to medium grained, medium strength, numerous black coal laminae and bands above 12.8m.  Medium to coarse grained below 13.17m.	SW										12.9-13.02m: Conglomerate band with siltstone rip-up clasts.  Is(50)=0.38 MPa Is(50)=0.56 MPa	x o	
14	-9.02		100			Borehole terminated at 13.53m													
15																			
16																			
17																			
18																			
19																			
20																			

REMARKS \_\_\_\_\_

LOGGED BY  
A O'Rourke

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

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

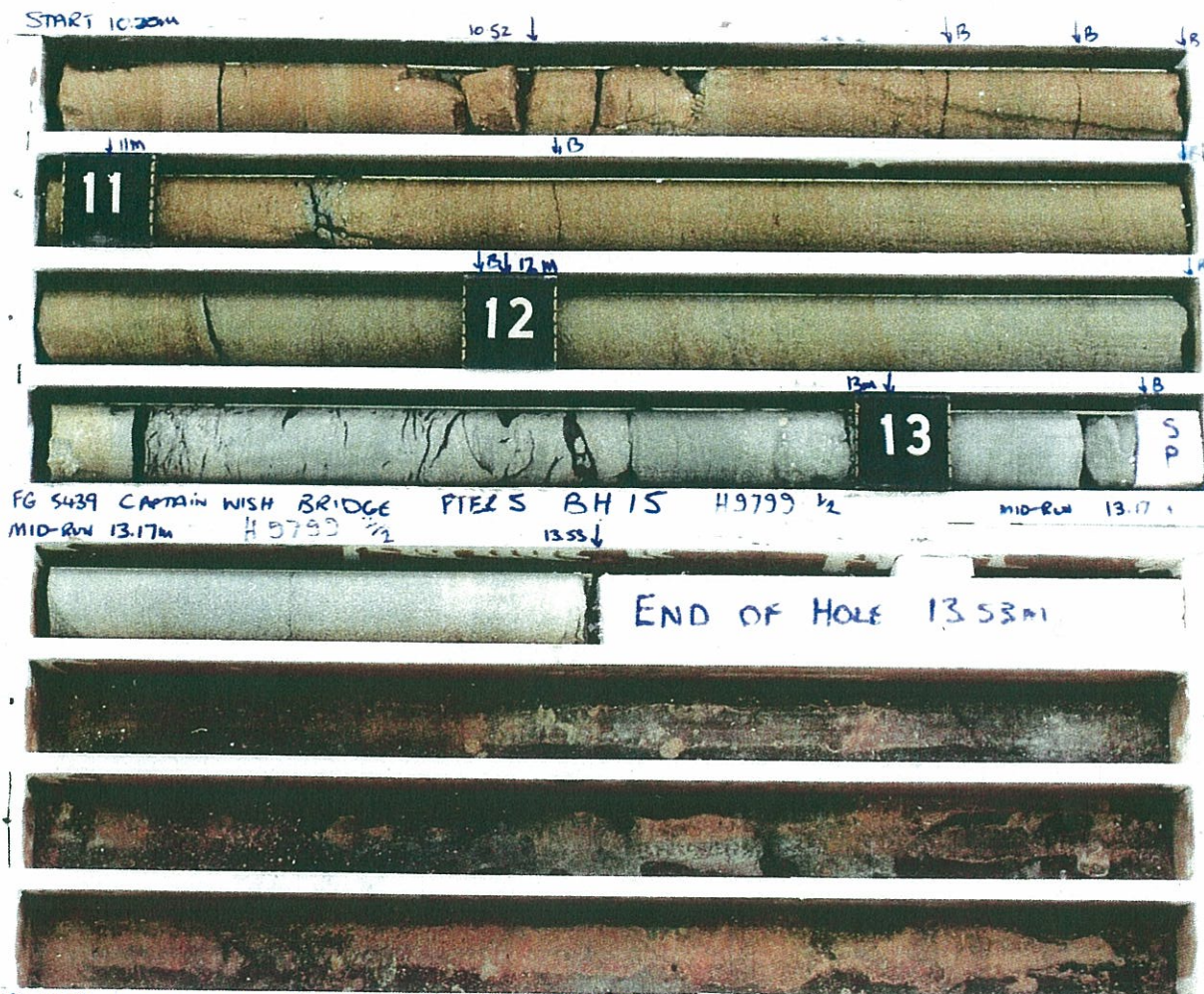
Borehole No: BH15 Pier 5

Start Depth: 10.20m

Finish Depth: 13.53m

Project No: FG5439

H No: 9799



SCALE 1:5

F:GEOT043/1

# Point Load Strength Index - Test Report

**Project: CABOOLTURE RIVER BRIDGE**

**Project No: FG 5439**

**Date Sampled 21/11/05**

**Feature: PIER 5**

**Sample Type: NMLC ROCK CORE**

**Date Tested 14/12/05**

**Report No. FG 5439/14/GS05/823AS4133.4.1**

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS05/823-A	BH15	10.06	D	0.67	0.66	M	Sandstone
GS05/823-B	BH15	10.09	A	0.71	0.59	M	Sandstone
GS05/823-C	BH15	11.74	D	0.04	0.04	VL	Sandstone
GS05/823-D	BH15	11.77	A	0.10	0.09	VL	Sandstone
GS05/823-E	BH15	12.56	D	0.20	0.19	L	Sandstone
GS05/823-F	BH15	12.59	A	1.02	0.91	M	Sandstone
GS05/823-G	BH15	13.22	D	0.38	0.38	M	Sandstone
GS05/823-H	BH15	13.26	A	0.64	0.56	M	Sandstone
GS05/823-I	BH15	11.71	A	0.15	0.14	L	Sandstone

**Sample Remarks**

GS05/823-D- Failed along existing defect

\* 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  
( P.REYNOLDS )



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