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

## ENGINEERING BOREHOLE

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

 BOREHOLE No
 BH3

 SHEET
 1 of 2

 REFERENCE No
 H9783

PRO	JECT	_Cabo	olture F	Ri <u>ve</u> i	Bridge Foundation Investigation								
					ft (along skew) of existing northbound bridge C/L			COORDINA			TES 497554.6 E; 7003489.3 N		
		_FG5439				DATE STARTED <u>07/11/05</u>		1/05	DATUM MGA94 Zo		MGA94 Zone	56	
JOB	No	_25/10A/60C			DATUM <u>AHD</u>	DAT	E COMPLETE	D _07/1	1/05		DRILLER	<u>Drillsure Pty I</u>	_td
о DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	A	ADDITIONAL I AND TEST RESUI		SAMPLES TESTS
-2	-0.98				Sandy CLAY (Alluvium): Brown, moist, soft, medium plasticity, fine grained sand, some plant roots and bioturbation.  Soft to firm below 2.5m.	CI		-		No sample	e recovered.	1,2,1 N=3 1,2,2 N=4	SPT
-	-1.98				SAND (Alluvium): Brown, moist, loose, medium to coarse grained, some low to medium plasticity fines.	SP						4,3,5 N=8	SPT
-5 -	-3.48				Clayey Gravelly SAND (Alluvium): Grey-brown, moist, loose, fine to coarse grained sand, fine to medium angular gravel up to 15mm, soft grey-brown silty clay lenses, some orange ironstaining.	SP				ı		1,4,4 N=8	SPT
7					Gravelly SAND (Alluvium): Pale brown, moist, loose, medium to coarse grained sand, fine to medium angular gravel up to 20mm, some low plasticity fines.	SP					711-	4,4,5 N=9	SPT
-9	-5.48 -6.12		(31) 100 (90)		SANDSTONE: HW: Orange-brown, fine to medium grained, very low to low strength, ironstained throughout.	HW			V		recovered. Is(5	20/50 N>50 60)=0.08 MPa 60)=0.09 MPa 60)=0.14 MPa	SPT 0 1 X - 0 -
10	-6.98		(-0)		MW: Pale brown, fine to medium grained, strength, occasional thin dark brown carbonaceous laminae, some ironstaining throughout.	MW							x -
REI	MARKS											OGGED BY	
											Α	O'Rourke	



## ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005 BOREHOLE No BH3

SHEET \_2\_ of \_2\_

REFERENCE No H9783

OCATION ROJECT No	_Pier_ _FG54	2 <u>- 14.2ı</u> 139	m le	ft (along skew) of existing northbound bridge C/L SURFACE R.L3.02		ATE START			OORDINATES <u>497554.6 E; 7003489.</u> DATUM MGA94 Zone	
OB No		0A/60C				E COMPLET				
R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION .	USC	INTACT STRENGTH ボン・スープゴ	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES
-7.61 111		100 (73)		SANDSTONE: HW: Dark orange-brown, fine to medium grained, very low to low strength, some coarse grained sand and fine gravel, numerous subhorizontal laminations, ironstained laminations, ironstained laminations, ironstained laminations, ironstained laminations, ironstained laminations, ironstained laminations, ironstained, low to medium strength, occasional dark brown to black thin (<1mm) carbonaceous laminae, ironstained pale orange-brown through rockmass above 11.04m.  Ironstained & iron cemented brown throughout rockmass below 12.56m.	hw				Is(50)=0.03 MPa Is(50)=0.12 MPa Is(50)=0.12 MPa  Is(50)=0.56 MPa Is(50)=0.88 MPa Is(50)=0.18 MPa Is(50)=0.18 MPa Is(50)=0.18 MPa	
-11.53		100		13.49-13.88m: angular coarse sand and fine gravel quartz grains throughout.  Below 13.90m: Coarse grained sandstone with little to no matrix material, stained dark orange-brown.  Borehole terminated at 14.55m					Is(50)=0.84 MPa Is(50)=1.11 MPa 13.88-13.90m: Grey, fine grained sandstone rip up clast.	
5										

Start Depth: 8.60m Finish Depth: 14.55m Project No: FG5439 H No: 9783 START 8 60 9. . 9.1200 9 SPACER IOM L 10 FG 5439 CAPTAIN WISH BRIDGE P1602 BH3 H97183 MID-Run 11.36m A 1200. By 13m 14 FG 5439 CAPTAIN WISH BRIDGE PIERZ 13 H3 1436m 1 MO-84 14-364 455 END OF HOLE 14.55M FG 5439 CAPTAIN WISH BRIDGE PIER 2 BH3 H9783 3/3 100 200 300 400 500 600mm SCALE 1:5 F:GEOT043/1

FOUNDATION INVESTIGATION FOR THE WIDENING OF THE CAPTAIN

WHISH BRIDGES (NORTH AND SOUTHBOUND) – CABOOLTURE RIVER

Project:

Borehole No: BH3 Pier 2



ROAD SYSTEM & ENGINEERING GEOTECHNICAL BRANCH 35 Butterfield St Herston Q 4006

## Point Load Strength Index - Test Report

**Project: CABOOLTURE RIVER BRIDGE** 

Project No: FG 5439

Date Sampled 7/11/05

Feature: PIER 2

Sample Type: NMLC ROCK CORE

Report No. FG 5439/GS05/786/AS4133.4.1

Date Tested 1/12/05

Sample Sample Depth Test Type Number (m) D,A,B,I*	Is (MPa)	ls50 (MPa)	Strength Descriptor**	Lithology
GS05/786-B BH3 8.80 D GS05/786-C BH3 8.82 A GS05/786-D BH3 9.24 D GS05/786-E BH3 9.27 A GS05/786-F BH3 10.07 D GS05/786-G BH3 10.10 A GS05/786-H BH3 10.66 D GS05/786-I BH3 10.69 A	0.08 0.09 0.16 0.37 0.72 0.03 0.12 0.56 1.01	0.08 0.09 0.14 0.37 0.67 0.03 0.12 0.56 0.88 0.15	VL VL L M M EL L M	Sandstone Sandstone Sandstone Sandstone Sandstone Sandstone Sandstone Sandstone 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

NATA

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

Signatory ...

(P.REYNOLDS)

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ROAD SYSTEM & ENGINEERING GEOTECHNICAL BRANCH 35 Butterfield St Herston Q 4006

# Point Load Strength Index - Test Report

**Project: CABOOLTURE RIVER BRIDGE** 

Project No: FG 5439

Date Sampled 7/11/05

Feature: PIER 2

Sample Type: NMLC ROCK CORE

Report No. FG 5439/GS05/786/AS4133.4.1

Date Tested 1/12/05

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	ls50 (MPa)	Strength Descriptor*	Lithology
GS05/786-K	BH3	13.65	D	0.85	0.84	M	Sandstone
GS05/786-L	BH3	13.68	A	1.16	1.11	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

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2 , 12, 05

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