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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 BH12
SHEET 1 of 2
REFERENCE No H9789

PROJECT Caboolture River Bridge Foundation Investigation
LOCATION Pier 1 - 15.1m right (along skew) of existing southbound bridge C/L COORDINATES 497604.5 E; 7003492.6 N
PROJECT No FG5439 SURFACE R.L. 2.52 DATE STARTED 15/11/05 DATUM MGA94 Zone 56
JOB No 25/10A/60C DATUM AHD DATE COMPLETED 15/11/05 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
0	2.52											
1						Sandy CLAY (Alluvium): Brown, moist, very soft to soft, medium plasticity, fine grained sand, some organic matter and small black charcoal fragments throughout, minor orange-brown mottling.						
2							CH					
3	-0.59					Soft to firm below 2.5m.					15/11/05 No SPT sample recovery.	1,1,1 N=2 SPT
4	-1.24					Sandy CLAY (Alluvium): Dark grey-brown, moist, firm to stiff, high plasticity, fine grained sand, lots of black organic matter throughout, clayey sand interbeds below 3.3m.	CH				$S_u = 50$ kPa (PP)	2,2,2 N=4 SPT
5	-2.49					Clayey Gravelly SAND (Alluvium): Grey-brown, moist, loose, coarse grained, fine gravel, high plasticity grey clayey fines.	SP				Water loss at 4.4m	1,2,4 N=6 SPT
6						Gravelly SAND (Alluvium): Pale grey-brown, moist, loose to medium dense, coarse grained, fine gravel up to 5mm, trace of medium and coarse gravel up to 30mm.	SP					5,9,6 N=15 SPT
7	-5.09											2,5,7 N=12 SPT
8						SANDSTONE: HW: Orange-brown, ironstained throughout, medium grained, very low strength.	HW					30/110,-,- N>50 SPT
9												
10	-7.49											

✓ Pile Tip - 7.5

REMARKS

LOGGED BY
A O'Rourke



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ENGINEERING BOREHOLE

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

BOREHOLE No BH12
SHEET 2 of 2
REFERENCE No H9789

PROJECT Caboolture River Bridge Foundation Investigation

LOCATION Pier 1 - 15.1m right (along skew) of existing southbound bridge C/L

COORDINATES 497604.5 E; 7003492.6 N

PROJECT No FG5439

SURFACE R.L. 2.52

DATE STARTED 15/11/05

DATUM MGA94 Zone 56

JOB No 25/10A/60C

DATUM AHD

DATE COMPLETED 15/11/05

DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER 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
10	-7.49							EH V>H I M V L EL	20 80 200 600 2000			
11						SANDSTONE: As above. HW: Medium to coarse grained and light grey with only minor orange-brown ironstaining below 10.0m.	HW				30/90,-- N>50	SPT
12	-9.14		(77)			MW: Pale grey, some orange-brown ironstained bands, medium to coarse grained bands interbedded with fine to medium grained bands, low-medium to medium strength. Defects: Numerous subhorizontal planar bedding partings. Rare 20-30° planar joints.	MW				No sample recovery. 30/50,-- 11.70m: 30° joint, planar, rough, ironstained. N>50 Is(50)=0.28 MPa Is(50)=0.17 MPa Is(50)=0.44 MPa Is(50)=0.57 MPa	SPT o x x o
13											13.14-13.17m: Is(50)=0.40 MPa Grey siltstone band.	o
14	-11.92		100								13.39m: 2mm black vitreous coal. 13.70m: 20° joint, planar, smooth. Is(50)=0.25 MPa Is(50)=0.21 MPa	x o
15						Borehole terminated at 14.43m						
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

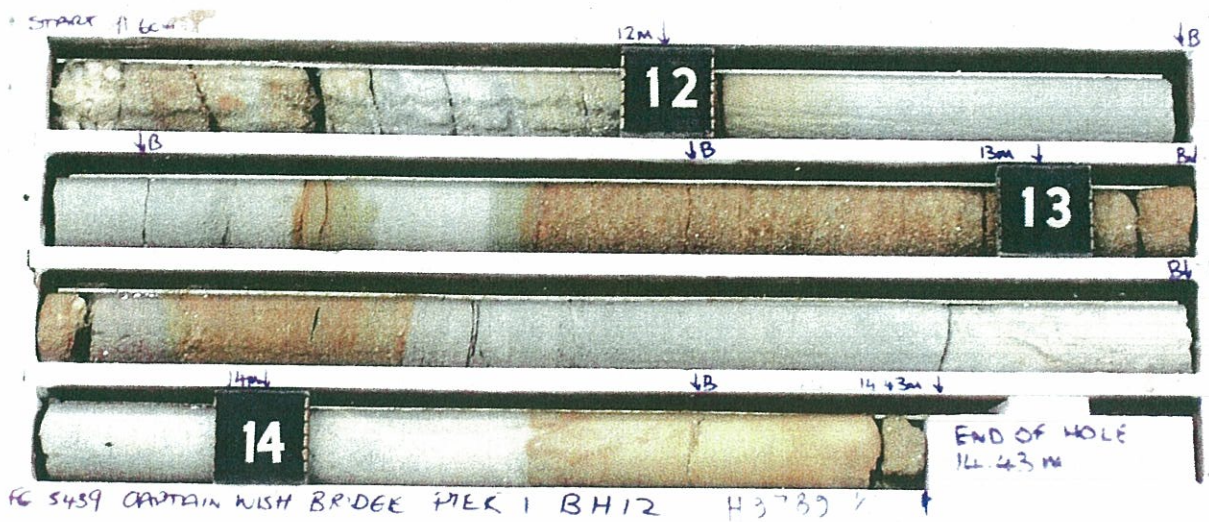
Borehole No: BH12 Pier 1

Start Depth: 11.60m

Finish Depth: 14.43m

Project No: FG5439

H No: 9789



SCALE 1:5

F:GEOT043/1



Point Load Strength Index - Test Report

Project: CABOOLTURE RIVER BRIDGE

Project No: FG 5439

Date Sampled 15/11/05

Feature: PIER 1

Sample Type: NMLC ROCK CORE

Date Tested 14/12/05

Report No. FG 5439/11/GS05/820AS4133.4.1

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS05/820-A	BH12	11.80	A	0.30	0.28	L	Sandstone
GS05/820-B	BH12	11.89	D	0.17	0.17	L	Sandstone
GS05/820-C	BH12	12.10	D	0.44	0.44	M	Sandstone
GS05/820-D	BH12	12.14	A	0.64	0.57	M	Sandstone
GS05/820-E	BH12	13.08	A	0.42	0.40	M	Sandstone
GS05/820-F	BH12	13.91	D	0.25	0.25	L	Sandstone
GS05/820-G	BH12	14.03	A	0.23	0.21	L	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

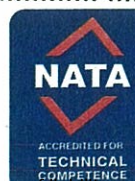
Software Version 2.03 April 2005

Client Name: RS&E STRUCTURES DIVISION

Client Address: PO BOX 1412 SPRING HILL 4001

Signatory

(P.REYNOLDS)



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