Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH13
SHEET 1 of 2
REFERENCE No H9790

PROJECT Caboolture River Bridge Foundation Investigation
LOCATION Pier 2 - 15.2m right (along skew) of existing southbound bridge C/L
COORDINATES 497603.4 E; 7003510.0 N
PROJECT No FG5439 SURFACE R.L. 2.53 DATE STARTED 16/11/05 DATUM MGA94 Zone 56
JOB No 25/10A/60C DATUM AHD DATE COMPLETED 16/11/05 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 (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	2.53				**Sandy CLAY (Alluvium):** Brown, slightly moist, stiff, medium plasticity, fine grained sand, some silt, some organic matter including plant roots, and visible bioturbation.	CI					4,6,6 N=12	SPT
	-0.08				**Clayey SAND (Alluvium):** Dark grey, moist, very loose, fine to medium grained, medium plasticity, lots of organics including black decomposed plant matter, some orange ironstaining. Highly organic layer at 3.5-3.6m, possibly an old tree intersected.	SC					1,1,1 N=2	SPT
	-1.08				**Clayey Gravelly SAND (Alluvium):** Pale grey-brown, moist, loose to medium dense, medium to coarse grained, fine gravel up to 6mm, some medium plasticity brown clay, trace of medium gravel.	SP					3,5,5 N=10	SPT
	-2.48				**Gravelly SAND (Alluvium):** Grey-brown, wet, loose, coarse grained, fine gravel up to 4mm.	SP					2,3,3 N=6	SPT
	-3.68				**Sandy GRAVEL (Alluvium):** Grey-brown, wet, loose, fine to medium gravel up to 10mm, coarse grained sand.	GP					9,30/80,- N>50	SPT
	-4.63				**SANDSTONE:** HW:	HW						
	-5.78				MW:	MW					Very hard to drill from 8.3m. No sample recovered. 30/50,-,- N>50	SPT
10	-7.48										Pile Tip -7.0	

REMARKS

LOGGED BY
A O'Rourke

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

Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH13
SHEET 2 of 2
REFERENCE No H9790

PROJECT Caboolture River Bridge Foundation Investigation
LOCATION Pier 2 - 15.2m right (along skew) of existing southbound bridge C/L
COORDINATES 497603.4 E; 7003510.0 N
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DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
10	-7.48		(54)		**SANDSTONE:** As above. SW: Pale grey, medium grained, medium strength, trace of orange-brown ironstaining in places, occasional bands of dark grey siltstone rip-up clasts and thin black coal laminae, occasional low strength MW bands.	SW					Is(50)=0.49 MPa Is(50)=0.62 MPa		x o
11					Defects: Occasional subhorizontal bedding partings. 70° irregular joint.	MW SW MW					Is(50)=0.24 MPa		o
12						SW					11.57-11.85m: Conglomerate band containing grey siltstone rip-up clasts.		
13	-10.48		81		Core loss 12.43-13.0m (left down hole).	MW SW					12.24m: 70° joint, irregular, rough. Is(50)=0.35 MPa Is(50)=0.58 MPa		x o
					Borehole terminated at 13m								
14													
15													
16													
17													
18													
19													
20													

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

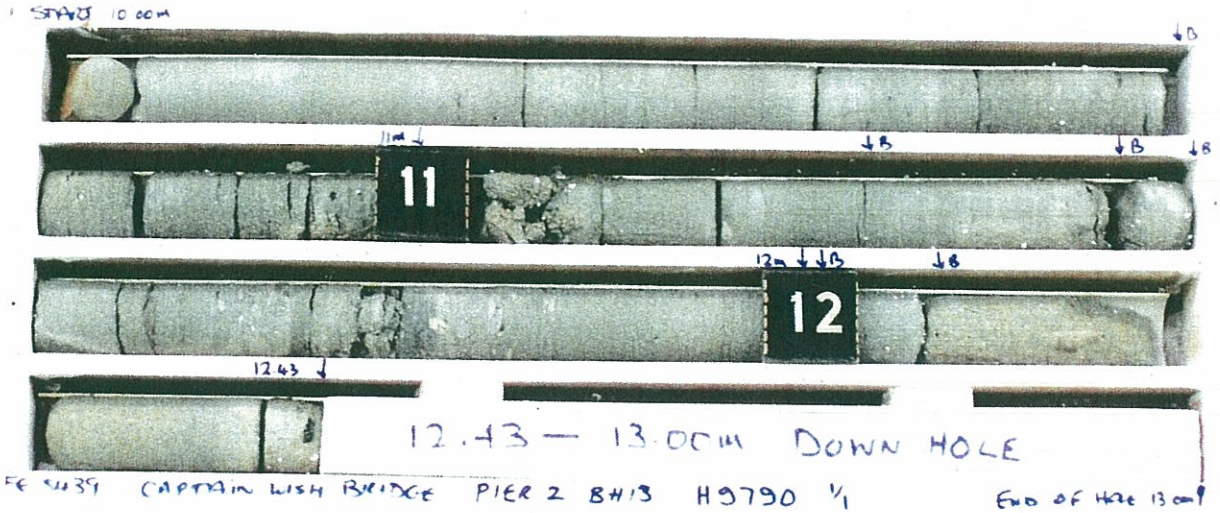
REMARKS

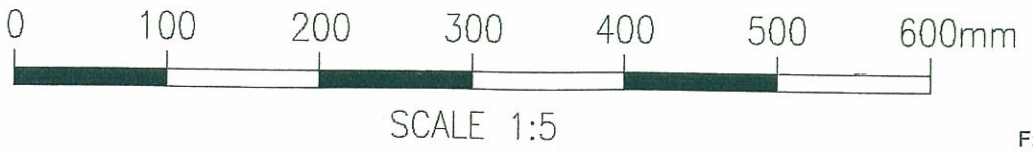
LOGGED BY
A O'Rourke

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

Borehole No: **BH13 Pier 2**

Start Depth: 10.00m
Finish Depth: 13.00m
Project No: FG5439
H No: 9790





F:GEOT043/1

Queensland Government
Department of Main Roads

ROAD SYSTEM & ENGINEERING
Geotechnical Branch
Butterfield St
Herston QLD 4006

Point Load Strength Index - Test Report

Project: CABOOLTURE RIVER BRIDGE
Project No: FG 5439

Date Sampled 16/11/05
Feature: PIER 2
Sample Type: NMLC ROCK CORE

Date Tested 14/12/05

Report No. FG 5439/12/GS05/821AS4133.4.1

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS05/821-A	BH13	10.12	D	0.50	0.49	M	Sandstone
GS05/821-B	BH13	10.16	A	0.69	0.62	M	Sandstone
GS05/821-C	BH13	10.98	A	0.27	0.24	L	Sandstone
GS05/821-D	BH13	12.29	D	0.36	0.35	M	Sandstone
GS05/821-E	BH13	12.32	A	0.66	0.58	M	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:

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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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Accreditation Number: 2302
Accredited for compliance with ISO/IEC 17025

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