Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH10
SHEET 1 of 3
REFERENCE No H9773

PROJECT Caboolture River Bridge Foundation Investigation
LOCATION Abutment B - 125.5m left (along skew) & 4.3m north of existing nthbound bridge C/L
COORDINATES 497536.4 E; 7003625.7 N
PROJECT No FG5439
SURFACE R.L. 5.56
DATE STARTED 27/10/05
DATUM MGA94 Zone 56
JOB No 25/10A/60C
DATUM AHD
DATE COMPLETED 27/10/05
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	5.56				**Silty CLAY (Residual Soil):** Grey-brown, moist.						According to drilling supervisor's log above 1.0m.	
1	4.56				**SANDSTONE:** XW: Pale grey with white, red and orange mottles throughout, medium grained, extremely low to very low strength, some slightly iron cemented bands. Has the soil properties of a sandy clay, moist, stiff to very stiff, medium plasticity, fine to medium grained sand.						1,5,4 N=9	SPT
2												
3											8,9,12 N=21	SPT
4												
5						XW					7,11,11 N=22	SPT
6					Below 5.5m has the soil properties of a clayey sand, moist, medium dense to dense, fine to medium grained, low to medium plasticity fines.						3,8,8 N=16	SPT
7												
8											4,7,12 N=19	SPT
9												
10	-3.95 / -4.45				HW:	HW					8,12,21 N=33	SPT

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 BH10
SHEET 2 of 3
REFERENCE No H9773

PROJECT Caboolture River Bridge Foundation Investigation
LOCATION Abutment B - 225.5m left (along skew) & 4.3m north of existing nthbound bridge C/L
COORDINATES 497536.4 E; 7003625.7 N
PROJECT No FG5439
SURFACE R.L. 5.56
DATE STARTED 27/10/05
DATUM MGA94 Zone 56
JOB No 25/10A/60C
DATUM AHD
DATE COMPLETED 27/10/05
DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	RQD ( )% / CORE REC %	MATERIAL DESCRIPTION	USC	WEATHERING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	-4.45		**SANDSTONE:** As above. HW: Grey, moistly iron-stained orange-brown, medium to coarse grained, very low strength, some fine gravel bands.		HW	28,30/80,- N>50	SPT
11						Pile Tip -6.0 No sample recovery 30/80,-,- N>50	SPT
12	-6.45		MW: Pale orange-brown, ironstained, medium grained, low to medium strength, occasional thin dark brown to black subhorizontal carbonaceous laminae.		MW		
13		(79)	Defects: Rare planar subhorizontal bedding partings.			Is(50)=0.20 MPa Is(50)=0.15 MPa	x o
14			14.5-14.75m: XW/HW band containing numerous black coal laminae.		XW-HW	Is(50)=0.35 MPa	o
15	-9.50	85	Core loss 14.75-15.05m.				
		(70)	SW: Light grey, medium grained, medium strength, some slight pale orange ironstaining throughout rockmass above 15.83m. Defects: Numerous planar subhorizontal bedding partings.				
16							
17						Is(50)=0.17 MPa Is(50)=0.50 MPa	x o
		100					
18		(76)			SW		
19						Is(50)=0.88 MPa	o
20	-14.45		Numerous thin subhorizontal dark brown to black carbonaceous laminae below 19.55m.				

REMARKS

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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 BH10
SHEET 3 of 3
REFERENCE No H9773

PROJECT Caboolture River Bridge Foundation Investigation
LOCATION Abutment B - 125.5m left (along skew) & 4.3m north of existing nthbound bridge C/L
COORDINATES 497536.4 E; 7003625.7 N
PROJECT No FG5439
SURFACE R.L. 5.56
DATE STARTED 27/10/05
DATUM MGA94 Zone 56
JOB No 25/10A/60C
DATUM AHD
DATE COMPLETED 27/10/05
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
20	-14.45												
	-14.70		100		**SANDSTONE:** SW: As above.	SW							
					Borehole terminated at 20.25m								

REMARKS

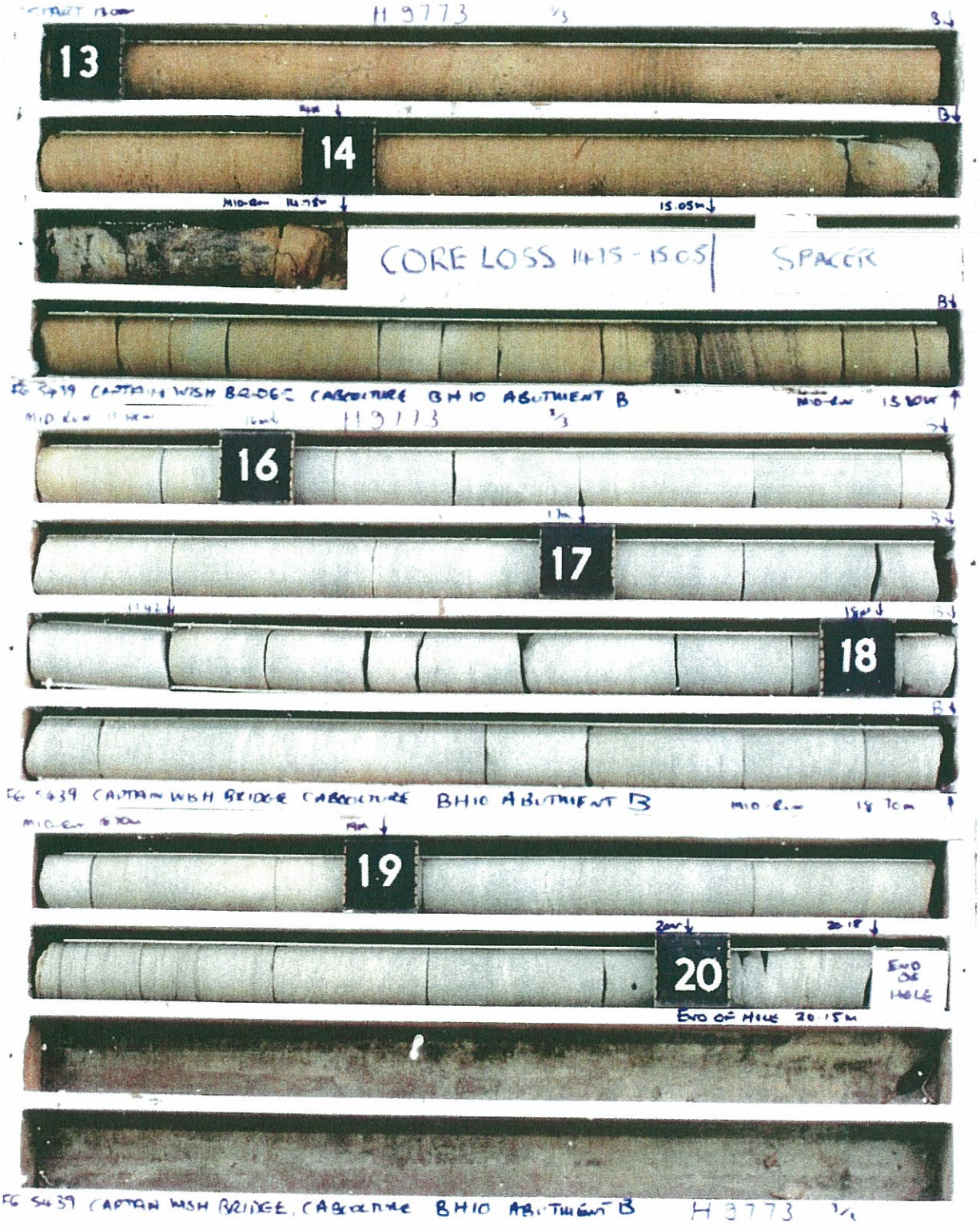
LOGGED BY
A O'Rourke

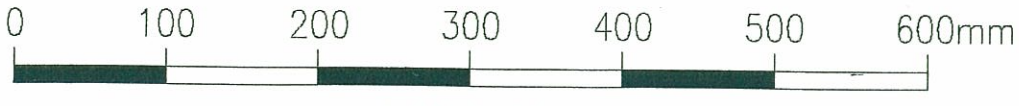
ENGINEERING BOREHOLE CABOOLTURE R BRIDGE WIDENINGS.GPJ QLD MAIN ROADS.GDT 23/02/06

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

Borehole No: **BH10 Abutment B**

Start Depth: 13.00m
Finish Depth: 20.15m
Project No: FG5439
H No: 9773





SCALE 1:5

F:GEOT043/1

Queensland Government
Department of Main Roads

ROAD SYSTEM & ENGINEERING
Geotechnical Branch
35 Butterfield St
Herston 4006

Point Load Strength Index - Test Report

Project: CABOOLTURE RIVER BRIDGE
Project No: FG 5439

Date Sampled 27/10/05
Feature: ABUT B
Sample Type: NMLC ROCK CORE

Date Tested 8/12/05

Report No. FG 5439/4/GS05/815AS4133.4.1

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS05/815-A	BH10	13.07	D	0.20	0.20	L	Sandstone
GS05/815-B	BH10	13.09	A	0.16	0.15	L	Sandstone
GS05/815-C	BH10	14.38	A	0.41	0.35	M	Sandstone
GS05/815-D	BH10	17.03	D	0.17	0.17	L	Sandstone
GS05/815-E	BH10	17.06	A	0.54	0.50	M	Sandstone
GS05/815-F	BH10	18.82	A	0.88	0.88	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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