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ENGINEERING BOREHOLE

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

BOREHOLE No	BH1					
SHEET	_1_ of _2_					
REFERENCE No.	H9781					

	PROJECT								,		
	LOCATION		Abutment A - 12.8m left (along skew) & 3.6m north of existing ntl				d bridge C/L	C	COORDINATES 497556.0 E; 7003460.6		
		OJECT No <u>FG5439</u>					ATE STARTED 03/11	/05	DATUM MGA94 Zone	56	
	JOB No	No <u>25/10A/60C</u> DATUM <u>AHD</u>				DATE COMPLETED _03/11/05			_		
	(E) HLL (M)	AUGER CASING WASH BORING CORE DRILLING		SAMPLE	MATERIAL DESCRIPTION	USC	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	
1 :	- 4.02		1,120 //		Silty Clay (Alluvium):		+	O	According to Drilling Supervisor's log	S E	
	3.82				Clayey SAND (Alluvium): Pale orange-brown, moist, medium dense, medium to coarse grained, some low to medium plasticity clay fines. Fine to medium grained and more clayey below 2.0m.	sc	+++++++++++++++++++++++++++++++++++++++		only above 1.0m. 4,8,8 N=16	SPT	
	1.02				Silter CLAY (Allerian)				4,5,7 N=12	SPT	
3DT 23/02/06	-4				Silty CLAY (Alluvium): Grey-brown, moist, firm, high plasticity, trace of minor orange-brown ironstained lenses, some white mottles and fine gravel.	СН	† † † † † † † † †		2,2,4 N=6	SPT	
ENINGS.GPJ QLD MAIN ROADS.C	- <u>-0.73</u>				Clayey Gravelly SAND (Alluvium): Grey-brown, moist, medium dense, coarse grained, fine to medium gravel up to 20mm, grey high plasticity clayey fines.	SP			Water loss at 5.4m. 6,10,8 N=18	SPT	
LTURE R BRIDGE WID	-3.18				Gravelly SAND (Alluvium):				4,6,7 N=13	SPT	
ENGINEERING BOREHOLE CABOOLTURE R BRIDGE WIDENINGS.GPJ QLD MAIN ROADS.GDT 23/02/06					Pale brown, moist, medium dense, coarse grained sand, fine to medium gravel up to 10mm, trace of grey-brown clay. Less sand and more gravel with depth.	SP			6,9,9 N=18	SPT	
	REMARKS								LOGGED BY		
									A O'Rourke		



QLD MAIN ROADS.GDT

GPJ

CABOOLTURE R BRIDGE WIDENINGS.

BOREHOLE

ENGINEERING BOREHOLE

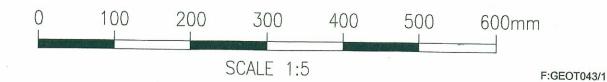
FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005

___BH1___ BOREHOLE No SHEET _ 2 _ of _ 2 REFERENCE No H9781

PROJECT Caboolture River Bridge Foundation Investigation LOCATION Abutment A - 12.8m left (along skew) & 3.6m north of existing nthbound bridge C/L COORDINATES 497556.0 E; 7003460.6 N PROJECT No FG5439 SURFACE R.L. 4.82 DATE STARTED 03/11/05 DATUM MGA94 Zone 56 JOB No 25/10A/60C DATE COMPLETED _03/11/05 DATUM _ AHD _ DRILLER _Drillsure Pty Ltd___ R.L. RQD INTACT DEFECT (m) ()% STRENGTH SPACING ADDITIONAL DATA Œ MATERIAL (mm) DEPTH (AND DESCRIPTION SAMPL CORE SAMPLE TESTS 280888 PYLATY TEST RESULTS REC % 10 -5.18Gravelly SAND (Alluvium): As above SANDSTONE: -5.339,30/80,-SPT Brown, fine grained, very low strength, ironstained, some clayey fines, subhorizontal laminations visible. HW Grey below 11.5m. No brown staining. 30/100,-,-SPT N>50 Blade refusal at 12.0m -7.24(95)MW: MW 12.29-12.51m: Orange-brown Grey, fine to medium grained, some coarse HW ironstained bands. Is(50)=0.16 MPa grained sand and fine gravel lenses, low strength. ls(50)=0.08 MPa ls(50)=0.21 MPa Occasional dark brown to black carbonaceous laminae up to 2mm thick. MW Mostly medium to coarse grained below 13.15m. ls(50)=0.15 MPa ls(50)=0.33 MPa Defects: 0 Numerous subhorizontal to 15° bedding -9.1113.7-13.74m: Numerous dark brown carbonaceous laminae up to 4mm Grey, medium to coarse grained, medium strength, trace of orange-brown ironstaining throughout rockmass. 100 ls(50)=0.44 MPa 23/02/06 (76)ls(50)=0.56 MPa 15 15.1-15.5m: Conglomerate band. Fine to medium gravel sized rip up clasts of siltstone SW and sandstone, medium to coarse grained sandstone matrix. Numerous subhorizontal to 10° bedding partings. Is(50)=0.54 MPa X O -11.90 100 Is(50)=0.56 MPa Borehole terminated at 16.72m ENGINEERING REMARKS LOGGED BY A O'Rourke

Project: FOUNDATION INVESTIGATION FOR THE WIDENING OF THE CAPTAIN WHISH BRIDGES (NORTH AND SOUTHBOUND) – CABOOLTURE RIVER Borehole No: BH1 Abutment A Start Depth: 12.00m Finish Depth: 16.72m Project No: FG5439 H No: 9781 START 12.00 JB 48 48 14 SPACER 76 5439 CAPTAIN WISH BRIDGE CABOUTURE MID-RUM 14754 ISH H9781 16 ENDOF HOLE 16.724

46 54-39 CAPTAIN WISH BRIDGE CHBOOLTURE



ABUTMENT A BHI

49781

2/2



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: ABUT A

Sample Type: NMLC ROCK CORE

Report No. FG 5404/9/GS05/784AS4133.4.1

Date Tested 30/11/05

Sample	Sample	Depth	Test Type	ls	ls50	Strength	Lithology
Number	Location	(m)	D,A,B,I*	(MPa)	(MPa)	Descriptor	**
GS05/784-A GS05/784-B GS05/784-C GS05/784-D GS05/784-E GS05/784-F GS05/784-G	BH1 BH1 BH1 BH1 BH1 BH1	12.39 12.57 12.60 13.53 13.58 14.65 14.72	A D A D A	0.17 0.08 0.25 0.15 0.35 0.44 0.65	0.16 0.08 0.21 0.15 0.33 0.44 0.56	L VL L M M M	Sandstone Sandstone Sandstone Sandstone Sandstone Sandstone Sandstone
GS05/784-H	BH1	16.46	D	0.54	0.54	M	Sandstone
GS05/784-I	BH1	16.50	A	0.62	0.56	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

NATA

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

Signatory .

(P.REYNOLDS

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