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ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005 BOREHOLE No _____BH6 ___

SHEET ___1__ of __2__

REFERENCE NO ____H9786 ___

PROJECT							
LOCATION		ft (along skew) of existing northbound bridge C/L		OORDINATES 497552.7 E; 7003538.1 N			
PROJECT No <u>FG5439</u> JOB No 25/10A/60C			DATE STARTED				
	_25/10A/60C	DATUM <u>AHD</u> .	DATE COMPLETED	09/11/05	DRILLER Drillsure Pty Ltd	<u>.d</u>	
(m) HHL O 4.57	ANGER ANG CORE DRILLING CORE DRILLING CORE DRILLING CORE DRILLING CORE DRILLING SAMPLE	MATERIAL DESCRIPTION	STRENGTH SP. C.	CRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	
-1 -2 -3 -3 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4		Clayey SAND (Alluvium): Brown, moist, loose, fine to medium grained, some low plasticity fines, some organic matter. Grey-brown and more medium plasticity clay fines below 3.5m. Some dark orange-brown ironstained lenses and some organic matter throughout.	SC		2,3,3 N=6	SPT SPT	
PJ QLD MAIN ROADS.GDT 23/02/06		SAND (Alluvium): Brown, moist, loose to medium dense, coarse grained, occasional high plasticity grey clay bands, trace of fine gravel up to 5mm.	SP		5.0m: Water loss 2,4,6 N=10	SPT	
ENGINEERING BOREHOLE CABOOLTURE R BRIDGE WIDENINGS.GPJ QLD MAIN ROADS.GDT The property of t		Gravelly SAND (Alluvium): Pale brown, moist, loose, coarse grained, fine gravel up to 6mm.	SP -		4,3,4 N=7	SPT	
ENGINEERING BOREHOLE CABG		SANDSTONE: HW: Orange-brown, ironstained, medium grained, very low strength, subhorizontal bedding laminations visible.	HW		Piletip-5.5 30/40,-	SPT	
NEIVIAKKS	 		 		LOGGED BY A O'Rourke		



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 _____BH6____

SHEET __2__ of __2__

REFERENCE No ____H9786

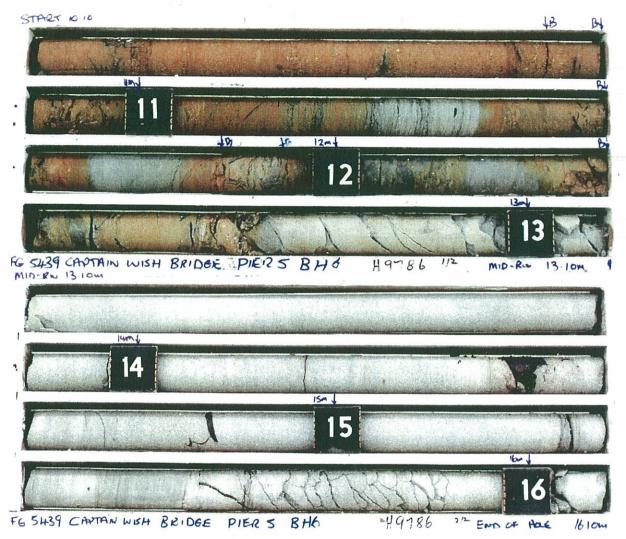
PROJE													
LOCAT					n left (along skew) of existing northbound bridge C/L COORDINATES 497552.7 E; 70						497552.7 E; 7003538	3. <u>1 N</u>	
PROJE	CT No				SURFACE R.L4.57	[DATE START	ED .	09/1	1/05	5 DATUM MGA94		e_56
JOB No)	25/10	0 <u>A/60C</u>		DATUM <u>AHD</u>	DAT	E COMPLETE	ED .	09/1	1/05		Ltd	
PTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC	INTACT STRENGTH ボジェミュラゴ		ECT CING nm)	GRAPHIC LOG		ITIONAL DATA AND ST RESULTS	SAMPLES
-	-5.53		(88)		SANDSTONE: HW: As above.	HW				1	Pile Ti	V -5.5 N>50	
-11					Orange-brown, ironstained, a few light grey (non-ironstained) bands, medium grained, low to high strength, occasional coarse grained bands, thin dark brown subhorizontal carbonaceous laminae and black coal laminae, occasional bands containing grey-brown siltstone rip-up clasts. Defects: Numerous subhorizontal bedding partings and low angle joints. Rare 50-60° irregular joints.	MW				an manda	12.58-13.10m:	Is(50)=0.06 MPa Is(50)=0.38 MPa on cemented band. Is(50)=1.06 MPa Is(50)=1.19 MPa	o _
13	-8.53		100								to high angle of fractures.	Irilling induced	-
			(91)		SW: Light grey, medium to coarse grained, medium to high strength, occasional black coal laminae and bands up to 30mm thick, fairly massive. Defects: Occasional subhorizontal bedding partings. Rare 60-70° irregular joints.	SW					15.56-15.90m: to high angle d fractures.	Is(50)=0.39 MPa Is(50)=0.51 MPa Numerous moderate rilling induced	x - 0
- 16 -1	11.53		100		Borehole terminated at 16.1m				1 1				-
-17 -18 -19					Borenole terminaled at 10.1m								
REMA	RKS .											LOGGED BY	
												A O'Rourke	

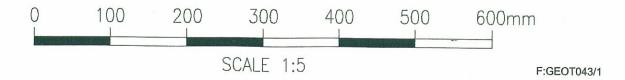
Project: FOUNDATION INVESTIGATION FOR THE WIDENING OF THE CAPTAIN WHISH BRIDGES (NORTH AND SOUTHBOUND) - CABOOLTURE RIVER

Borehole No: BH6 Pier 5 10.10m

Start Depth: Finish Depth: 16.10m Project No:

FG5439 H No: 9786







Road System & Engineering 35 Butterfield Street Herston Qld 4006

Point Load Strength Index - Test Report

Project: CABOOLTURE RIVER BRIDGE

Project No: FG 5439

Date Sampled 9/11/05

Feature: PIER 5

Sample Type: NMLC ROCK CORE Report No. FG 5439/1/GS05/801/AS4133.4.1

Date Tested 6/12/05

Sample	Sample	Depth	Test Type	ls	ls50	Strength	Lithology
Number	Location	(m)	D,A,B,I*	(MPa)	(MPa)	Descriptor*	
GS05/801-A GS05/801-B GS05/801-C GS05/801-D GS05/801-E GS05/801-F	BH6 BH6 BH6 BH6 BH6 BH6	10.30 10.33 11.15 11.18 13.18 13.21	D A D A D	0.06 0.42 1.07 1.38 0.39 0.57	0.06 0.38 1.06 1.19 0.39 0.51	VL M H H M	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

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

Signatory

(Peter Reynolds) NATA

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

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es on attached cover page.

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