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## **GEOTECHNICAL**

**FINAL** 24/04/2017

BOREHOLE No BH7

	Ĭ	Queensland				BOREHOLE LOG						Sheet 1 of 2		
	Ç	N.	, Go	ve	rnment		SYI		GEOTECHNICAL TE REFER FORM F:GE			REFERENCE No	H	12808
PROJE	СТ	Loc	haber C	reek	Bridge Replacement									
LOCATION PROJECT No		Abu	ıtment E	B, LH	IS		COORDINATES 319989	0.2 E; 71810	73.4 N					
		FG6	FG6448 SURFACE RL			140.42m	PLUNGE 90° DATE START		TED 15/03/2017 GRID DATUM GDA 94		₀ GDA 94			
JOB No	0				HEIGHT DATUM	AHD	BEAF	RING °		DATE COMPLE	TED 15/03/2017	DRILLE	R Schneider	Drilling
					<u> </u>			_						
DEРТН (m)	R.L. (m)	AUGER CASING WASH BORING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION		LITHOLOGY USCS WEATHERING		INTACT STRENGTH ਜ਼ੵੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑ	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS	
2 3	138.62		3	Α	Sandy CLAY with silt ( Brown, moist, very st Medium plasticity.  Silty SAND (Alluvium) Brown, moist, mediu Fine to medium grain plasticity fines.	iff.		(CI)					4, 10, 10 N=20 4, 6, 5 N=11 5, 8, 8 N=16	SPT SPT SPT
- - - 5 - - -	135.52			E	Sandy CLAY (Alluvium Brown, moist, hard. Low plasticity, fine gr			(CL)	- - - - - - - - -				11, 13, 18 N=31	SPT
- - - - - - - -	134.52	-			Clayey SAND trace gr Pale brown, moist, de Fine to medium grain plasticity fines.	ense.		(SC)	- - - - - - - -				11, 13, 18 N=31	SPT
- - - - - - - -	133.32				Becoming very dense SANDSTONE (Je/1) HW: Pale grey, mediu very thinly to thinly b low strength.	ım grained,		нw					11, 22, 30/120	SPT
9	132.42 131.45		(0) 100 (7)		SANDSTONE (Je/1) SW: Pale grey, mediu thinly to thinly bedde strength BP: 5°-20° (5/m), Pl, SANDSTONE (Je/1) HW: Pale grey, mediu very thinly to thinly b very low to low stren	ed, high /Ro, TI.  im grained, pedded, mainly		MW SW HW	H L VL	C VC-C VC	8.04m: Cly, 10°, 40m 8.12m: Cly, 40°, 8mm 8.15m: Cly, 15°, 10m 8.34m: Cly, 15°, 10m 8.60m: Cly, 30°, 8mm 8.81m: Sandy Cly, irr 8.97m-9.50m: HW zi	n m m n egular, 8mm one, sandy Cly	ls(50)=1.50 MPa ls(50)=2.80 MPa	D (8.19m) = A (8.25m) =
-	130.42		100				: :	SW	L	vc	& rock			-
	100.42	1111	(45)		Continued on ne	ext sheet		<u> </u>			<u> </u>		Is(50)=1.40 MPa	A (10.00m)
RI	EMAR	KS:	Je/1 =	Eve	ergreen Formation	l						LOGGED BY	REVIE	EWED BY
												M.Ensor		Foley
												2.1501		1

### Queensland Government

### GEOTECHNICAL BOREHOLE LOG

**FINAL** 24/04/2017

BOREHOLE No BH7

Sheet 2 of 2

FOR GEOTECHNICAL TERMS AND H12808 REFERENCE No SYMBOLS REFER FORM F:GEOT 017/8-2014 Lochaber Creek Bridge Replacement PROJECT COORDINATES 319989.2 E; 7181073.4 N Abutment B, LHS LOCATION SURFACE RL 140.42m DATE STARTED 15/03/2017 GRID DATUM GDA 94 FG6448 PLUNGE 90° PROJECT No DRILLER Schneider Drilling HEIGHT DATUM AHD DATE COMPLETED 15/03/2017 JOB No BEARING ' USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS RQD INTACT STRENGTH DEFECT SPACING LITHOLOGY SAMPLES TESTS DEPTH ( RΙ SAMP MATERIAL DESCRIPTION CORE REC % 표'높'파'ヹ'ヸ |ਲ਼゚ゟ゚ゔヹゞ゚ゞ゚゚゚゚ SANDSTONE (Je/1) SW Is(50)=1.20 MPa D (10.12m)-SW: Pale grey & orange, medium MW grained, very thinly to thinly 10.53m: Cly, 10°, 3mm 10.54m: Cly, 5°, 20mm Is(50)=1.10 MPa D (10.56m)bedded, mainly high strength. BP: 0°-10° (4/m), PI/Ro, TI-OP, some FeSt. - J: 15°-45° (3/m), Pl/Ro, Tl-OP, some 11.25m: J, 50°, 5mm Cly, FeSt 100 Cly, FeSt. - J: 70°-90° (<1/m), Stp/Ro, TI, some Is(50)=1.10 MPa Is(50)=0.65 MPa FeSt. A (11.72m) D (11.75m) 12.06m: J, 20°, partial Cly (12.20m) (47) 13 Is(50)=1.10 MPa A (13.07m)-SW Is(50)=0.98 MPa D (13.53m)\_ Is(50)=1.80 MPa D (14.40m) Is(50)=0.21 MPa A (14.62m) 14.75m: HFZ, 30mm UCS=32.00 MPa (14.95m) Becoming very high strength. 15 Is(50)=3.30 MPa Is(50)=3.50 MPa D (15.08m) С A (15.17m)-Is(50)=3.50 MPa D (15.65m)\_ 124.47 100 Borehole completed at 15.95m REMARKS: Je/1 = Evergreen Formation **LOGGED BY REVIEWED BY** M.Ensor S.Foley TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI



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Project Name	Lochaber Creek Bridge Replacement		
Project No.	FG6448	Date Completed	15/03/2017
Borehole No.	BH7	Reference Number	H12808
Location	Lochaber Creek (Abut B LHS)	Start Depth (m)	8.00
Submitted By	Jaime Lopez	Finish Depth (m)	15.95
Remarks			
100			
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A LOCAL COMMENTS	A Walter Andrews	> MANN M	
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0 100	200 300 400	500 600	700
	SCALE (mm)		

Page 1 of 1