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# GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **BH5**

Sheet 1 of 2

REFERENCE No **H12806**

PROJECT	Lochaber Creek Bridge Replacement		
LOCATION	Pier 2, LHS	COORDINATES 319995.2 E; 7181055.4 N	
PROJECT No	FG6448	SURFACE RL 137.87m	PLUNGE 90°
			DATE STARTED 18/03/2017
			GRID DATUM GDA 94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 19/03/2017
			DRILLER Schneider Drilling

DEPTH (m)	R.L. (m)	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS			
											EH	VH	H
137.07				Sandy CLAY (Alluvium) Mottled yellow-brown, moist, firm. Low plasticity, fine grained sand.	(CL)								
1			A	Clayey SAND trace gravel (Alluvium) Brown, moist, loose. Medium to coarse grained sand, low plasticity fines, subangular particles.	(SC)					4, 3, 3 N=6 SPT			
2			B	2m: Becoming medium dense.						3, 3, 7 N=10 SPT			
134.97			C	Gravelly SAND with clay (Alluvium) Brown to yellow-brown, moist, medium dense. Fine to coarse grained sand, fine to medium grained gravel, subangular particles.	(SW)					6, 10, 9 N=19 SPT			
4			D	4m: Becoming very dense.						30/145 SPT			
133.37		(50)		SANDSTONE (Je/1) MW: Orange, yellow & pale grey, medium grained, very thinly to thinly to medium bedded, medium to high strength. - B: 0°-30° (7/m), PI-Stp/Ro, OP, FeSt.	MW			4.56m: HW zone, 20mm	Is(50)=1.10 MPa Is(50)=1.30 MPa	A (4.84m) D (4.89m)			
132.47		100 (50)		SANDSTONE (Je/1) SW: Orange, yellow & pale grey, medium grained, very thinly to thinly bedded, mainly high strength. - B: 0°-10° (5/m), PI-Stp/Ro, TI-OP, FeSt. - J: 40°-60° (2/m), PI-Stp/Ro, TI-OP, FeSt. - J: 70°-90° (<1/m), PI-Stp/Sm, TI, Some Cly, FeSt.	SW				UCS=26.70 MPa Is(50)=2.40 MPa	(5.65m) D (5.78m)			
		100 (73)			MW				Is(50)=1.00 MPa	A (6.15m)			
					SW				Is(50)=2.30 MPa Is(50)=2.70 MPa	D (6.75m) A (6.93m)			
					MW			7.10m-7.17m: HW Zone, Fest.					
					SW				Is(50)=1.60 MPa	D (7.95m)			
									UCS=21.40 MPa Is(50)=2.00 MPa	(9.20m) D (9.35m)			
									Is(50)=2.00 MPa Is(50)=1.30 MPa	A (9.75m) D (9.80m)			

Continued on next sheet

REMARKS: Je/1 = Evergreen Formation

LOGGED BY	REVIEWED BY
M.Ensor	S.Foley



# GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **BH5**

Sheet 2 of 2

REFERENCE No **H12806**

PROJECT	Lochaber Creek Bridge Replacement		
LOCATION	Pier 2, LHS	COORDINATES 319995.2 E; 7181055.4 N	
PROJECT No	FG6448	SURFACE RL 137.87m	PLUNGE 90°
			DATE STARTED 18/03/2017
			GRID DATUM GDA 94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 19/03/2017
			DRILLER Schneider Drilling

DEPTH (m)	R.L. (m)	FAUGER CASING WASH BORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS																
												EH		EC		VC		C		M		W		VW		EW	
												VH	H	M	J	VI	EL	EC	VC	C	M	W	VW	EW			
11			100 (81)		SANDSTONE (Je/1) SW: Yellow & pale grey, fine to medium grained, very thin to thinly bedded, mainly high strength. - BP: 0°-10° (3/m), Pl-Stp/Ro, TI. - J: 40°-60° (2/m), Pl/Ro, TI, some Cly. - J: 70°-90° (1/m), Pl/Ro, TI, Cly.	SW			11.27m: J, 70-90°, 7mm Cly, irregular. 11.62m: J, 30°, 3mm, Sinf.	Is(50)=2.80 MPa Is(50)=2.30 MPa Is(50)=2.10 MPa Is(50)=2.60 MPa	A (10.41m) D (10.50m) A (11.72m) D (11.77m)																
12		100 (66)		MW										12.60m: HW zone, 40mm, irregular.	Is(50)=1.90 MPa Is(50)=1.60 MPa	D (12.78m) A (13.17m)											
13	124.45	100															SW										
14												Borehole completed at 13.42m															

REMARKS: Je/1 = Evergreen Formation	<b>LOGGED BY</b>	<b>REVIEWED BY</b>
	M.Ensor	S.Foley

**CORE PHOTO LOG**  
**F: GEOT043/3**  
**DEPARTMENT OF TRANSPORT AND MAIN ROADS**  
**Geotechnical Section**



Project Name	<b>Lochaber Creek Bridge Replacement (Burnett Highway 41C)</b>		
Project No.	FG6448	Date Completed	17/03/2017
Borehole No.	BH5	Reference Number	H12806
Location	Lochaber Creek (Pier 2 LHS)	Start Depth (m)	4.50
Submitted By	Jaime Lopez	Finish Depth (m)	13.42
Remarks			

