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**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH1**

Sheet 1 of 2

REFERENCE No **H12864**

PROJECT **Valentine Creek Bridge Geotechnical Investigation**

LOCATION **Abut A, LHS**

COORDINATES **214385.0 E; 7391784.5 N**

PROJECT No **FG6483**

SURFACE RL **93.65m**

PLUNGE **90°**

DATE STARTED **13/06/2017**

GRID DATUM **MGA 94**

JOB No **02790/16A/001**

HEIGHT DATUM **AHD**

BEARING **°**

DATE COMPLETED **14/06/2017**

DRILLER **Schneider**

DEPTH (m)	R.L. (m)	AUGER 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	VH	H	M	J	VI	EL	EC	VC	C	M	W	VW	EW									
1	91.95			A	Sandy CLAY (Alluvium) Dark brown, moist, very stiff. Medium plasticity, fine to medium grained sand, trace organics.		(CI)																				4, 7, 9 N=16	SPT		
2	90.95			B	Clayey SAND trace gravel (Alluvium) Brown, moist, loose. Medium grained sand.		(SC)																				3, 4, 4 N=8 LL=35% PI= 15% LS= 8% <75µm= 27%	SPT		
3	89.95			C	Gravelly CLAY with sand (Alluvium) Brown, moist, very stiff. Medium plasticity, medium to coarse grained gravel.		(CI)																				7, 11, 12 N=23	SPT		
4	89.05			D	Clayey GRAVEL (Alluvium) Brown & black, moist, medium dense. Medium to coarse grained gravel, subrounded particles.		(GC)																				13, 15, 10 N=25	SPT		
5				E	Clayey SILT (Residual) Brown & pale grey, moist, hard. Low plasticity.		(ML)																				8, 14, 20 N=34	SPT		
6	87.25			F																							11, 17, 30 N=47	SPT		
7				G	BASALT (Kb) HW: Brown & dark grey, fine grained, massive, very low strength.		HW																				25, 30/70	SPT		
8	85.15			H																							27, 30/90	SPT		
9	83.65		(0) 100 (36)		BASALT (Kb) SW: Dark grey, fine grained, massive, mainly medium to very high strength. - J: 0°-30° (10/m), PI-Stp/Ro, TI-OP, FeSt. - J: 60°-80° (2/m), PI/Ro, CD.		MW																					8.60m: HFZ, 30mm, Cly & gravel. 8.72m: HFZ, 40mm, Cly & gravel.	Is(50)=2.10 MPa Is(50)=1.60 MPa Is(50)=1.20 MPa Is(50)=0.24 MPa	D (8.80m) A (8.96m)
			100 (81)					SW																						
								MW																						
								SW																					9.60m-9.68m: BZ Is(50)=1.30 MPa	D (9.20m) A (9.30m) D (9.80m)

Continued on next sheet

REMARKS: Kb - Cretaceous aged Basalt (Unnamed).

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REVIEWED BY

M Ensor

S Foley



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Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH1**

Sheet 2 of 2

REFERENCE No **H12864**

PROJECT **Valentine Creek Bridge Geotechnical Investigation**

LOCATION **Abut A, LHS**

COORDINATES **214385.0 E; 7391784.5 N**

PROJECT No **FG6483**

SURFACE RL **93.65m**

PLUNGE **90°**

DATE STARTED **13/06/2017**

GRID DATUM **MGA 94**

JOB No **02790/16A/001**

HEIGHT DATUM **AHD**

BEARING **°**

DATE COMPLETED **14/06/2017**

DRILLER **Schneider**

DEPTH (m)	R.L. (m)	AUGER 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	VH	H	M	J	VI	EL	EC	VC	C	M	W	VW	EW									
11			100 (74)		BASALT (Kb) SW: (Cont'd) Dark grey, fine grained, massive, mainly high to very high strength. - J: 5°-20° (3/m), Pl-Stp/Ro, OP. - J: 70°-90° (2/m), Pl/Ro, TI-OP, Cly.	V	SW	H-VH										C M C M										10.10m: HW zone, 10mm. 10.56m: HW zone, 10mm. 10.92m: HW zone, 8mm.	Is(50)=1.70 MPa Is(50)=1.80 MPa Is(50)=2.50 MPa	A (10.10m) D (10.39m) A (10.52m)
12					MW		C										C										11.72m-11.83m: HFZ, FeSt, trace sand/Cly 11.83m-12.12m: Js, 80°, 10mm Cly Inf.	UCS=88.90 MPa Is(50)=3.30 MPa Is(50)=5.20 MPa	(11.20m) A (11.40m) D (11.45m)	
13			100 (100)		SW		VH										M										Is(50)=8.10 MPa Is(50)=6.40 MPa UCS=155.00 MPa Is(50)=5.30 MPa Is(50)=2.40 MPa	D (12.48m) A (12.61m) (13.00m) D (13.24m) A (13.37m)		
14	79.25		100		Becoming pale grey.																						Is(50)=0.90 MPa Is(50)=0.26 MPa	D (14.07m) A (14.18m)		
					Borehole completed at 14.40m																									
15																														
16																														
17																														
18																														
19																														

REMARKS: Kb - Cretaceous aged Basalt (Unnamed).

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REVIEWED BY

M Ensor

S Foley

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



Project Name	Valentine Creek Bridge Project (Capricorn Highway 16A)		
Project No.	FG6483	Date Completed	14/06/17
Borehole No.	BH1	Reference Number	H12864
Location	Abut A, LHS	Start Depth (m)	8.50
Submitted By	Matthew Ensor	Finish Depth (m)	14.40
Remarks			

