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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH4**

Sheet 1 of 2

REFERENCE NO **H12867**

PROJECT	Valentine Creek Bridge Geotechnical Investigation
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LOCATION	Pier 1, RHS
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COORDINATES 214367.1 E; 7391794.9 N

PROJECT No FG6483

SURFACE RL 91.31m

PLUNGE 90°

DATE STARTED 16/06/2017

GRID DATUM MGA 94

JOB No 02790/16A/001

HEIGHT DATUM AHD

BEARING °

DATE COMPLETED 17/06/2017

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	LH	VH	H	M	L	VL	EL	EC	LC	C	M	W	VW	EW									
1	89.51				A	Clayey SAND trace gravel (Alluvium) Brown, moist, loose. Medium to coarse grained sand, high plasticity fines.	SC																				2, 2, 3 N=5 LL=54% PI= 33% LS= 17% <75µm= 41%	SPT				
2	88.31				B	Clayey SILT (Residual) Brown, grey & orange, moist, very stiff. Low plasticity.	ML																				8, 12, 11 N=23	SPT				
3					C	BASALT (Kb) HW: Brown & grey, fine grained, massive, very low strength.																					16, 30/140	SPT				
4					D																						30/105	SPT				
5					E		HW																				11, 19, 30/130	SPT				
6	85.11				F																						30/80 hb	SPT				
7				(96)		BASALT (Kb) SW: Dark grey, fine grained, massive, very high strength. - J: 5°-20° (2/m), PI/Ro, OP. - J: 30°-40° (2/m), PI/Ro, OP.		SW																			Is(50)=3.20 MPa Is(50)=4.50 MPa UCS=239.00 MPa	A (6.25m) D (6.43m) (7.15m)				
8	83.26			100 (69)																							Is(50)=6.00 MPa Is(50)=5.60 MPa Is(50)=1.10 MPa	A (7.42m) D (7.53m) D (8.02m)				
9	82.39			100 (81)		BASALT (Kb) MW: Dark grey & brown, fine grained, massive, mainly high strength. J: 80°-90° (1/m), Un/Ro, OP.		MW																								
	81.31					BASALT (Kb) SW: Dark grey, fine grained, massive, very high strength. - J: 5°-20° (3/m), PI-Stp/Ro, OP.		SW																			Is(50)=3.40 MPa Is(50)=9.60 MPa UCS=74.00 MPa	A (9.40m) D (9.48m) (9.70m)				

Continued on next sheet

REMARKS: Kb - Cretaceous aged Basalt (Unnamed).

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REVIEWED BY

M Ensor

S Foley

Queensland
Government

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BOREHOLE No **BH4**

Sheet 2 of 2

REFERENCE No **H12867**

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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	17/06/17
Borehole No.	BH4	Reference Number	H12867
Location	Pier 1, RHS	Start Depth (m)	6.20
Submitted By	Matthew Ensor	Finish Depth (m)	11.80
Remarks			

START 6.20

7.30

BH4

BOX1

FG6483

8.80

9.05

BOX2

FG6483

10.30

BH6

SP

END 11.80

0 100 200 300 400 500 600 700

SCALE (mm)