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**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH10**

Sheet 1 of 1

REFERENCE No **H12198**

PROJECT Velway 1 Stage E: Birdwood to Gaza Road
 LOCATION Bridge over Marshall Rd and Bapaume Rd. COORDINATES 505546.9 E; 6955202.6 N
 PROJECT No FG6253 SURFACE RL 22.64m PLUNGE 90° DATE STARTED 16/06/2015 GRID DATUM MGA94 Zone 56
 JOB No 201/C001/4 HEIGHT DATUM AHD BEARING ° DATE COMPLETED 16/06/2015 DRILLER North Coast Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	ROD (%) 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	C	M	W			
22.14					PAVEMENT MATERIAL																
1				A	Sandy Silty CLAY (Alluvium) Pale brown grey mottled orange brown, fine grained, stiff. Low plasticity.	(CL)													3, 4, 6 N=10 SPT		
2	20.64			B	Clayey SAND (Alluvium) Pale grey mottled brown, moist, medium dense. Fine to medium grained. Trace fine gravel.	(SC)													5, 7, 10 N=17 SPT		
3	19.64			C	Gravelly Clayey SAND (Alluvium) Brown grey, moist, dense. Sand is fine to coarse grained. Fine gravel.	(SC)													14, 19, 19 N=38 SPT		
4	18.64			D	METAGREYWACKE (Dcf) XW: Recovered as brown grey, moist, very dense, Gravelly Clayey SAND Fine to coarse grained sand. Fine gravel.	XW													26, 25, 30/100 hb SPT		
5	17.64		(53)		METAGREYWACKE (Dcf) MW: Orange grey, fine grained, foliated, mainly high strength. Defects: J's: 5°-20° (5-6/m) Pl/Sm, Tl, FeSt, some Cly Vr J's/FP: 20°-35° (3/m) Pl/Sm, Tl, FeSt	MW													30/0 hb SPT		
6	15.94		100 (72)		METAGREYWACKE (Dcf) SW: Blue grey, fine grained, foliated, very high strength. Defects: J's: 5°-15° (6/m) Pl/Sm, Tl, FeSt	SW													5.60m-5.75m: BZ, Cly Is(50)=1.40 MPa Is(50)=2.50 MPa D (5.75m) A (5.81m)		
7																			6.22m-6.38m: BZ, Cly 6.28m: J, 65°, Pl/Ro, Tl, FeSt Vr 6.70m: Qz Vn, 40°, 10mm		
8	14.64		100																Is(50)=5.40 MPa Is(50)=3.00 MPa D (7.78m) A (7.80m)		
					Borehole completed at 8.00m																

REMARKS: Dcf - Neranleigh Fernvale Beds. Soil samples taken from 0.0-0.5m for environmental testing.

LOGGED BY	REVIEWED BY
TJG	SF

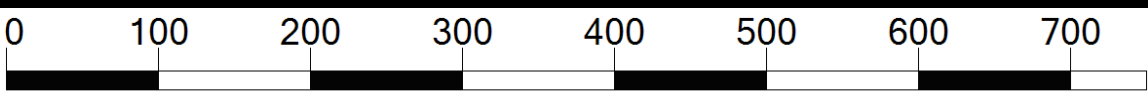
CORE PHOTO LOG

DEPARTMENT OF TRANSPORT & MAIN ROADS
 Geotechnical Branch
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Department of
 Transport and Main Roads

Project Name	Veloway (V1), Section E: Birdwood to Gaza Road		
Project No	FG6253	Date	16/06/15
Borehole No	BH10	TMR H No	12198
Location	Bridge over Marshall and Bapaume Rd	Start Depth (m)	5.0
Detail		Finish Depth (m)	8.0
Chainage		Submitted By	TJG
Remarks			



SCALE 1:5