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**Queensland  
Government**

**GEOTECHNICAL  
BOREHOLE LOG**

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

BOREHOLE No **BH09**

Sheet 1 of 1

REFERENCE No **H12197**

PROJECT Veloway 1 Stage E: Birdwood to Gaza Road  
 LOCATION Bridge over Marshall Rd and Bapaume Rd. COORDINATES 505536.0 E; 6955231.9 N  
 PROJECT No FG6253 SURFACE RL 22.19m PLUNGE 90° DATE STARTED 15/06/2015 GRID DATUM MGA94 Zone 56  
 JOB No 201/C001/4 HEIGHT DATUM AHD BEARING ° DATE COMPLETED 15/06/2015 DRILLER North Coast 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
21.99					ASPHALT							
21.59					Silty Sandy GRAVEL (Roadbase)		(GW)					
20.89				A	Grey brown, moist, medium dense. Gravel is angular <20mm. Clayey SAND with Gravel (Residual)		(SC)			6, 11, 18 N=29	SPT	
				B	Grey brown, moist, medium dense. Gravel <10mm, subangular. Sandy CLAY (Residual)		(CI)			4, 8, 11 N=19	SPT	
19.49					Grey, moist, very stiff. Sand is fine to medium grained. Medium plasticity.							
				C	Clayey Sandy GRAVEL (Residual)		(GC)			8, 13, 11 N=24	SPT	
18.59					Dark grey brown, moist, medium dense. Gravel is angular <20mm.							
				D	ARGILLITE (Dcf)		HW			30/100 hb	SPT	
				(0)	HW: Dark grey mottled orange brown, fine grained, foliated, extremely low to very low strength. Defects: Clayey zones throughout. Brecciated in parts. Foliation is crenulated in part. FP: 60°-90° (~5/m), Un/Sm-Ro, TI, Cly Vr, some Qz. J's: 5°-15° (10/m), Pl/Sm, TI, Cly Vr.		MW					
				100 (0)			XW			4.67m-4.92m: Qz Vn, subvertical, broken <20mm. 4.85m-5.13m: XW Gravelly CLAY		
				100 (0)			HW					
				100 (27)								
15.94					ARGILLITE (Dcf)		MW					
					SW: Dark grey to grey, fine grained, foliated, high to very high strength. Bedding is 40°-50°. Frequent Metagreywacke interbeds <350mm. Foliation at 70°-80°. Defects: FP: 70°-80° (<1/m) Un/Sm, TI, Cly Vr, FeSt BP: 40°-50° (1/m) Un/Ro, TI, FeSt J's: 10°-30° (3/m) Pl/Ro, TI, FeSt.		SW			6.63m-6.78m: Greywacke	Is(50)=2.10 MPa D (6.47m) Is(50)=0.73 MPa A (6.53m) Is(50)=0.43 MPa D (6.60m)	
				100 (56)			MW			6.94m-7.01m: XW Clayey SAND		
							MW			7.25m-7.30m: HW Clay	UCS=9.44 MPa (7.40m)	
							HW			7.81m: FP, 50°, Pl, Fi, Cly 2mm.		
											Is(50)=1.70 MPa D (8.15m) Is(50)=1.60 MPa A (8.18m)	
13.36				100						8.50m-8.83m: Greywacke	Is(50)=2.90 MPa D (8.75m) Is(50)=1.50 MPa A (8.78m)	
					Borehole completed at 8.83m							

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

<b>LOGGED BY</b>	<b>REVIEWED BY</b>
JA	SF

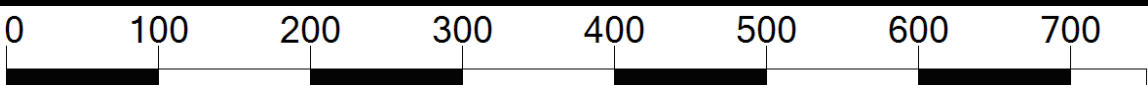
**CORE PHOTO LOG**

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Department of  
 Transport and Main Roads

Project Name	<b>Velway (V1), Section E: Birdwood to Gaza Road</b>		
Project No	FG6253	Date	15/06/15
Borehole No	BH09	TMR H No	12197
Location	Bridge over Marshall Rd and Bapaume Rd	Start Depth (m)	4.1
Detail		Finish Depth (m)	8.83
Chainage		Submitted By	DC
Remarks			



SCALE 1:5