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**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH14**

Sheet 1 of 1

REFERENCE No **H12202**

PROJECT	Veloway 1 Stage E: Birdwood to Gaza Road				
LOCATION	Bridge over Marshall Rd and Bapaume Rd.			COORDINATES 505574.5 E; 6955087.1 N	
PROJECT No	FG6253	SURFACE RL	24.43m	PLUNGE	90°
				DATE STARTED	04/06/2015
				GRID DATUM	MGA94 Zone 56
JOB No	201/C001/4	HEIGHT DATUM	AHD	BEARING	°
				DATE COMPLETED	05/06/2015
				DRILLER	Geodrill

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
24.13					Sandy SILT (Topsoil) Dark brown, fine grained. Low plasticity.	(ML)							
23.43					Sandy CLAY (Residual) Dark brown, moist, firm to stiff. Fine grained sand. Low plasticity.	(CL)							
				A	METAGREYWACKE (Dcf) XW: Recovered as pale brown grey, moist, hard, Sandy CLAY. Fine to medium grained sand.	XW				13, 40, hb	SPT		
21.43			(32)		METAGREYWACKE (Dcf) MW: Grey brown, fine to medium grained, weakly foliated, medium to high strength. Defects: J's: 10°-30° (2-3/m) Pl/Ro, TI, FeSt, Sinf J's: 70°-80° (2/m) Un/Ro, TI, FeSt. Occasional Qz Vn.	MW				3.00m-3.05m: BZ DI 3.55m: J, 75°, Un/Ro, TI, FeSt, Sinf 3.65m-3.75m: Qz Vn, 50°, 3mm 3.70m-3.85m: BZ DI 4.45m: Clay Seam 4.50m-5.91m: HFZ, Sand and Gravel infill.	30/5mm hb D (3.30m) A (3.33m) Is(50)=1.50 MPa Is(50)=0.85 MPa		
			100 (17)			XW							
			100 (0)			MW							
			100 (0)			XW							
			100 (0)			MW							
			100 (50)			HW				5.72m-5.80m: BZ			
						MW					Is(50)=0.89 MPa Is(50)=0.49 MPa		
						HW				6.24m-6.44m: BZ, Qz Vn's throughout	D (5.97m) A (6.00m)		
17.99			100 (50)		METAGREYWACKE (Dcf) SW: Grey, fine to medium grained, weakly foliated, high to very high strength. Defects: J's: 10°-30° (2-3/m) Pl/Ro, TI, FeSt, Sinf J's: 70°-80° (2/m) Un/Ro, TI, FeSt. Occasional Qz Vn.	SW					Is(50)=4.00 MPa UCS=44.10 MPa		
			100 (44)								D (7.00m) (7.85m)		
15.43			100								Is(50)=3.70 MPa Is(50)=3.60 MPa		
					Borehole completed at 9.00m						D (8.90m) A (8.97m)		

REMARKS: Dcf - Neranleigh Fernvale Beds. Soil samples taken from 0.0-0.5m for environmental testing.	LOGGED BY	REVIEWED BY
	TJG	SF

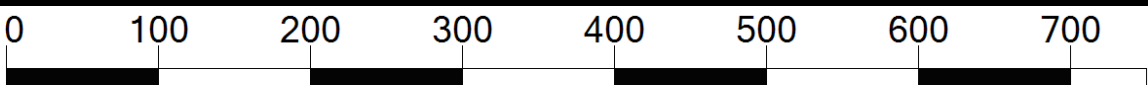
CORE PHOTO LOG

DEPARTMENT OF TRANSPORT & MAIN ROADS
 Geotechnical Branch
 35 Butterfield Street, HERSTON Qld 4006
 Phone 07 3066 3336



Department of
 Transport and Main Roads

Project Name	Velway (V1), Section E: Birdwood to Gaza Road		
Project No	FG6253	Date	04/06/15
Borehole No	BH14	TMR H No	12202
Location	Bridge over Marshall Rd and Bapaume Rd	Start Depth (m)	3.0
Detail		Finish Depth (m)	9.0
Chainage		Submitted By	J. Lopez
Remarks			



SCALE 1:5