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Queensland Government

GEOTECHNICAL BOREHOLE LOG

FINAL 27/09/2018 BOREHOLE No

CRR993

Sheet 1 of 1 FOR GEOTECHNICAL TERMS AND H13151 REFERENCE No SYMBOLS REFER FORM F:GEOT 017/8-2014 Cross River Rail (CRR) Project - Additional Geotechnical Investigation PROJECT O'Connell Terrace COORDINATES 503265.9 E; 6963917.8 N LOCATION SURFACE RL 15.54m FG6470 PLUNGE 90° DATE STARTED 29/08/2018 GRID DATUM MGA94 PROJECT No DATE COMPLETED 29/08/2018 DRILLER Geodrill JOB No HEIGHT DATUM AHD BEARING S RQD USCS WEATHERING ADDITIONAL DATA INTACT DEFECT SPACING SAMPLES TESTS Ê LITHOLOGY AND TEST RESULTS STRENGTH RΙ DEPTH SAMP MATERIAL DESCRIPTION CORE REC % Silty SAND (Topsoil) (SM 15.24 Dark brown, moist, loose. Fine to (CH) 14.99 medium grained. Trace sub-angular 14.84 fine gravel. Rootlets, grass. XW (0) Sandy CLAY (Fill) Pale brown, moist, firm to stiff. High HW (93) plasticity. Fine to coarse grained Is(50)=0.82 MPa D (1.17m) Is(50)=1.40 MPa and. A (1.18m) _ TUFF (Rif) MW XW: Recovered as, pale grey mottled pale orange, moist, subangular fine to medium gravel with HW D (2.15m) fine to coarse grained sand. Is(50)=0.58 MPa A (2.16m) TUFF (Rif) 100 (89) HW: Pale red and pale grey, with Is(50)=0.85 MPa D (2.60m) MW orange staining, fine grained, A (2.61m) massive, clasts up to 30mm diameter, medium to high strength. HW 12.15 Frequent MW zones. Is(50)=1.60 MPa D (3 48m) TUFF (Rif) Is(50)=4.00 MPa A (3.49m) _ MW: Pale red and pale grey, with orange staining, fine grained, D (3.90m) Is(50)=5.00 MPa Is(50)=3.10 MPa massive, clasts up to 30mm A (3.91m) (53) diameter, high to very high strength MW Is(50)=6.70 MPa D (5.10m) Is(50)=4.20 MPa A (5.12m) UCS=117.00 MPa E=24.8 GPa (5.29m) 100 (84)v= 0.109 D (5.63m) Is(50)=4.00 MPa Is(50)=4.00 MPa A (5.64m) HW Is(50)=2.50 MPa Is(50)=1.60 MPa D (6.60m) A (6.61m) MW 8.54 100 С Is(50)=1.80 MPa Is(50)=3.80 MPa UCS=87.70 MPa TUFF (Rif) D (7.07m) A (7.08m) SW: Pale red and pale grey, with (7.18m) orange staining, fine grained, E=26.6 GPa SW massive, clasts up to 20mm Is(50)=4.50 MPa D (7.78m) diameter, high to very high strength Is(50)=6.70 MPa A (7.79m) HW MW 7.02 100 Is(50)=1.70 MPa D (8.44m). Is(50)=3.30 MPa A (8.45m) Borehole completed at 8.52m REMARKS: Rif - Brisbane Tuff **LOGGED BY REVIEWED BY** ND S.Foley TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

Detailed Discontinuity Description Log



This form is intended for the detailed description of discontinuities and defects as measured in outcrop by line mapping, or as they occur downhole in drilled rock core. The descriptions and abbreviations used shall be in accordance with Australian Standard AS1726-1993 Geotechnical site investigations and TMR Geotechnical Terms and Symbols Form F:GEOT017/8.

Project Name Site ID / Borehole No. Geologist						Project No FG6470				
						Surface RL 15.542 Date 29/08/2018				
										3
Traverse	Туре	Dip ° / Dip	Planarity	Roughness	Roughness		Infilling	Zones ¹	Other	
Chainage;		Direction °;			Class					
or	LP/	or				CD/	Cn /	SZ /		
Down hole	BP /	Angle ° from	Stp /	Ro /	I to IX	OP /	St /	CZ /		
depth	FP/	horizontal	Un /	Sm /		FL/	Vr/	HFZ /		
(rock core)	J etc.	(rock core)	PI	SI		TI	Ct 1	AZ		
0.80	J	0	Un	Ro	IV	OP	Cn			
0.85	J	5	Stp	Ro	I	OP	Cn			
0.90	J	10	Un	Ro	IV	OP	St		Fe	
0.95	J	0	Un	Ro	IV	OP	St/Vr		Fe/Coal	
1.12	J	0	Un	Ro	IV	OP	Cn			
1.33	J	0	PI	Ro	VII	OP	St		Fe	
1.60	J	10	Un	Ro	IV	OP	St		Fe	
1.87	J	10	Un	Ro	IV	TI	St		Fe	
1.89	J	10	Stp	Ro		OP	St		Fe	
1.83-1.93	J	60-80	Un	Ro	IV	CD/FL	St		Fe	
2.05	J	5	Un	Ro	IV	CD/TI	St		Fe	
2.28	J	0	Un	Ro	IV	OP	St/Vr		Fe/Coal	
2.29	J	5	Un	Ro	IV	OP	St/Vr		Fe/Coal	
2.91	J	10	Un	Ro	IV	OP	Cn			
3.01	J	0	Un	Ro	IV	TI/CD	St		Fe	
3.05	J	10	Un	Ro	IV	TI	St		Fe	
3.13-3.19	J	50	Un	Ro	IV	TI	St		Fe	
3.21-3.24	J		Un	Ro	IV			XW		
3.41	J	10	PI	Ro	VII	OP	St/Vr		Fe/Coal	
3.65	J	10	Un	Ro	IV	OP	St/Vr		Fe/Coal	
3.66	J	5	Un	Ro	IV	CD	St		Fe	
3.83	J	20	Un	Ro	IV	OP	St/Vr		Fe/Coal	
4.11-4.67	J	80-90	Un	Ro	IV	CD/TI	St		Fe	
4.69	J	0	Un	Ro	IV	OP	St		Fe	
4.73-4.78	J	70	Un	Ro	IV	OP	St		Fe	
4.75	J	0	Un	Ro	IV	OP	St		Fe	
5.14	J	10	Un	Ro	IV	OP	St/Vr		Fe/Coal	
5.23	J	30	Un	Ro	IV	OP	St		Fe	
5.58	J	20	Un	Ro	IV	OP	St		Fe	
5.72	J	10	Un	Ro	IV	OP	St		Fe	
5.92	J	5	Un	Ro	IV	CD	St		Fe	

Note: 1. Describe zones and coatings in terms of composition and thickness (mm)

F:GEOT 533/9 - 2014

Detailed Discontinuity Description Log



This form is intended for the detailed description of discontinuities and defects as measured in outcrop by line mapping, or as they occur downhole in drilled rock core. The descriptions and abbreviations used shall be in accordance with Australian Standard AS1726-1993 Geotechnical site investigations and TMR Geotechnical Terms and Symbols Form F:GEOT017/8.

Project Name Site ID / Borehole No.		Cross River Rail - Stage 2				Project No. FG6470			
		CRR993				Surface RL 15.542			
Geologist		Nick Dewar				Date	29/08/2018		
						Page	2	of	2
5.95-6.06	J	80-90	Un	Ro	IV	CD	St		Fe
6.09-6.26	J	60-80	Un	Ro	IV	CD	St		Fe
6.15-6.30	J	70	Un	Ro	IV	CD	St		Fe
6.16	J	5	Un	Ro	IV	OP	St		Fe
6.25	J	5	Un	Ro	IV	CD	St		Fe
6.35	J	10	Un	Ro	IV	OP	St		Fe
6.44	J	5	Un	Ro	IV	TI	St		Fe
6.45	J	10	Un	Ro	IV	OP	St		Fe
6.41-6.49								HFZ	
6.7-6.94	J	80-90	Un	Ro	IV	CD/FL	St		Fe
6.90	J	20	Un	Ro	IV	OP	St		Fe
7.13	J	0	Un	Ro	IV	OP	Vr		Coal
7.55	J	5	Un	Ro	IV	OP	Cn		
7.64	J	10	Un	Ro	IV	CD	St		Fe
8.22	J	10	Un	Ro	IV	OP	St		Fe
8.23	J	5	Un	Ro	IV	CD/TI	St		Fe
8.24	J	5	Un	Ro	IV	OP	St		Fe
8.26	J	5	Un	Ro	IV	OP	St		Fe
8.34	J	15	Un	Ro	IV	OP	St		Fe

Note: 1. Describe zones and coatings in terms of composition and thickness (mm)

F:GEOT 533/9 - 2014