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**Queensland
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**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **CRR717**

Sheet 1 of 4

REFERENCE No **H12943**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation		
LOCATION	Countess Street (QR land)	COORDINATES 501622.6 E; 6962132.5 N	
PROJECT No	FG6470	SURFACE RL 20.00m	PLUNGE 90°
			DATE STARTED 25/09/2017
			GRID DATUM MGA94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 28/09/2017
			DRILLER Geodrill

DEPTH (m)	R.L. (m)	FAUGER CASING WASHBORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
												EH	VH
1	19.00				Clayey GRAVEL (Fill) Grey.	(GC)				0.00m-1.00m: Non destructive drilling			
2				A	Sandy CLAY (Fill) Red brown, moist, firm. Medium plasticity. Medium to coarse grained sand. With fine grained angular gravel.						3, 3, 3 N=6 SPT		
3				B	At 1.9m: Becoming yellow brown and red brown.						1, 3, 2 N=5 SPT		
4				C	From 4.0m: Becoming very soft to soft.	(CI)					1, 1, 1 N=2 SPT		
5				D	From 5.5m: Becoming soft.						2, 2, 2 N=4 SPT		
7	13.00			E	Clayey SAND (Residual) Grey brown mottled red, moist, loose. With fine to coarse grained, angular grains.	SC					2, 3, 6 N=9 SPT <75µm= 49%		
9	11.50			F	Silty CLAY (Residual) Grey, moist, stiff. Trace fine to coarse grained sand.	CH					3, 5, 7 N=12 SPT LL=75% PI= 56% MC=14.3% LS= 14% <75µm= 94%		
10	10.00												

Continued on next sheet

REMARKS: CAI = Average Cerchar abrasivity index (HRC=55). DCf - Neranleigh Fernvale Beds

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**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **CRR717**

Sheet 2 of 4

REFERENCE No **H12943**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation		
LOCATION	Countess Street (QR land)	COORDINATES 501622.6 E; 6962132.5 N	
PROJECT No	FG6470	SURFACE RL 20.00m	PLUNGE 90°
			DATE STARTED 25/09/2017
			GRID DATUM MGA94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 28/09/2017
			DRILLER Geodrill

DEPTH (m)	R.L. (m)	FAUGER CASING WASHBORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
													EH	VH
9.70					G	Silty CLAY (Residual) Cont'd.		CH				4, 7, 13 N=20	SPT	
8.70					H	Sandy CLAY (Residual) Grey mottled orange brown, moist, very stiff. High plasticity. Fine to coarse grained sand. Trace fine angular gravel.		(CH)				30/140mm	SPT	
			100 (0)			ARGILLITE (DCf) MW: Pale grey and orange-brown, fine grained, foliated, mainly medium strength. Occasional quartz veins. -J: 40°-55° (5/m), Stp-Un-Pl/Ro, OP-CD, FeSt -FP: 10°-90° (7/m), Stp-Un/Ro, OP, FeSt		HW			11.30m-11.50m: HFZ, HW			
			100 (0)											
			100 (9)					MW				Is(50)=0.31 MPa Is(50)=0.80 MPa	D (13.40m) A (13.42m)	
			100 (88)			ARGILLITE (DCf) SW: Pale grey, fine grained, foliated, high strength. Occasional Quartz veins <20mm thick, -Js: 55°-70° (7/m), Un/Ro, OP, Cn -FP: 60°-80° (2/m), Un/Ro, OP, Cn						Is(50)=0.73 MPa Is(50)=0.92 MPa	D (13.80m) A (13.82m)	
	5.50		100 (100)									Is(50)=4.10 MPa Is(50)=1.70 MPa	D (14.69m) A (14.71m)	
			100 (88)									Is(50)=0.41 MPa Is(50)=2.30 MPa	D (15.24m) A (15.29m)	
			100 (19)									Is(50)=1.50 MPa Is(50)=1.80 MPa	D (16.53m) A (16.54m)	
			100 (90)					SW				Is(50)=0.36 MPa Is(50)=1.40 MPa	D (18.17m) A (18.20m)	
			100 (81)									Is(50)=2.90 MPa Is(50)=1.60 MPa	D (19.20m) A (19.22m)	
0.00														

Continued on next sheet

REMARKS: CAI = Average Cerchar abrasivity index (HRC=55). DCf - Neranleigh Fernvale Beds

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**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **CRR717**

Sheet 3 of 4

REFERENCE No **H12943**

PROJECT Cross River Rail CRR2017 - Additional Geotechnical Investigation

LOCATION Countess Street (QR land)

COORDINATES 501622.6 E; 6962132.5 N

PROJECT No FG6470

SURFACE RL 20.00m

PLUNGE 90°

DATE STARTED 25/09/2017

GRID DATUM MGA94

JOB No _____

HEIGHT DATUM AHD

BEARING °

DATE COMPLETED 28/09/2017

DRILLER Geodrill

DEPTH (m)	R.L. (m)	FAUGER CASING WASHPORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS																																						
												EH VH H M L VL EL	EC VC C M W VW EW																																				
21	-0.35		100 (83)		ARGILLITE (DCf) SW: Cont'd.	SW	SW				UCS=31.80 MPa E=82.6 GPa v= 0.14 Is(50)=2.00 MPa Is(50)=4.40 MPa	(20.36m) D (20.50m) A (20.52m)																																					
					ARGILLITE (DCf) FR: Pale grey, fine grained, foliated, high to very high strength.								21.00m-22.35m: Metagreywacke																																				
					Occasional Quartz veins, 1-2mm thick.																																												
					-Js: 60°-90° (1/m), Stp-Un/Ro, OP, Cn																																												
					-FP: 30°-60° (6/m), Un/Ro, OP, Cn-FeSt																																												
					At 21.5m: Becoming pale grey and pale green.																																												
					100 (100)														Is(50)=0.25 MPa Is(50)=0.32 MPa	D (21.27m) A (21.30m)																													
					100 (100)																					Is(50)=2.60 MPa Is(50)=1.40 MPa	D (22.70m) A (22.72m)																						
					100 (100)																												Is(50)=5.80 MPa Is(50)=7.80 MPa	D (23.25m) A (23.26m)															
					100 (100)																																			Is(50)=4.60 MPa Is(50)=4.70 MPa	D (24.95m) A (24.96m)								
100 (100)						Is(50)=4.70 MPa Is(50)=3.30 MPa UCS=57.40 MPa E=69.8 GPa v= 0.201	D (26.10m) A (26.13m) (26.27m) D (26.39m) A (26.42m)																																										
100 (99)													Is(50)=2.10 MPa Is(50)=1.10 MPa																													D (27.14m) A (27.18m)							
100 (80)																																																Is(50)=1.70 MPa Is(50)=1.60 MPa	D (27.14m) A (27.18m)

Continued on next sheet

REMARKS: CAI = Average Cerchar abrasivity index (HRC=55). DCf - Neranleigh Fernvale Beds

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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **CRR717**

Sheet 4 of 4

REFERENCE No **H12943**

PROJECT Cross River Rail CRR2017 - Additional Geotechnical Investigation
 LOCATION Countess Street (QR land) COORDINATES 501622.6 E; 6962132.5 N
 PROJECT No FG6470 SURFACE RL 20.00m PLUNGE 90° DATE STARTED 25/09/2017 GRID DATUM MGA94
 JOB No _____ HEIGHT DATUM AHD BEARING ° DATE COMPLETED 28/09/2017 DRILLER Geodrill

DEPTH (m)	R.L. (m)	BOREHOLE CASING WASHBORING CONE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS				
													EH		EC	
													VH	H	VC	C
31			(92)			ARGILLITE (DCf) FR: Cont'd.					Is(50)=2.80 MPa Is(50)=0.17 MPa UCS=32.40 MPa E=69.7 GPa v= 0.128 Is(50)=4.70 MPa Is(50)=0.05 MPa	D (30.05m) A (30.07m) (30.21m) D (30.40m) A (30.41m)				
			100 (91)								30.70m: CAI=0.85	Is(50)=2.70 MPa Is(50)=1.00 MPa Is(50)=2.60 MPa Is(50)=1.30 MPa	D (31.10m) A (31.15m) D (31.43m) A (31.66m)			
33			100 (48)				FR					Is(50)=1.50 MPa Is(50)=1.10 MPa	D (32.34m) A (32.38m)			
34			100 (83)									Is(50)=7.10 MPa Is(50)=3.70 MPa	D (34.35m) A (34.36m)			
35								H-VH				Is(50)=2.00 MPa Is(50)=1.90 MPa	D (35.25m) A (35.27m)			
36			100 (100)									Is(50)=2.90 MPa Is(50)=0.52 MPa	D (36.60m) A (36.62m)			
37			100 (75)				SW					Is(50)=6.90 MPa Is(50)=2.20 MPa	D (38.65m) A (38.96m)			
39																
	-19.50		100			Borehole completed at 39.50m										

REMARKS: CAI = Average Cerchar abrasivity index (HRC=55). DCf - Neranleigh Fernvale Beds

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Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	28/09/2017
Borehole No.	CRR717	Reference No.	H12943
Location	Countess Street	Start Depth (m)	11.30
Submitted By	M. de Gee	Finish Depth (m)	39.50



Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	28/09/2017
Borehole No.	CRR717	Reference No.	H12943
Location	Countess Street	Start Depth (m)	11.30
Submitted By	M. de Gee	Finish Depth (m)	39.50



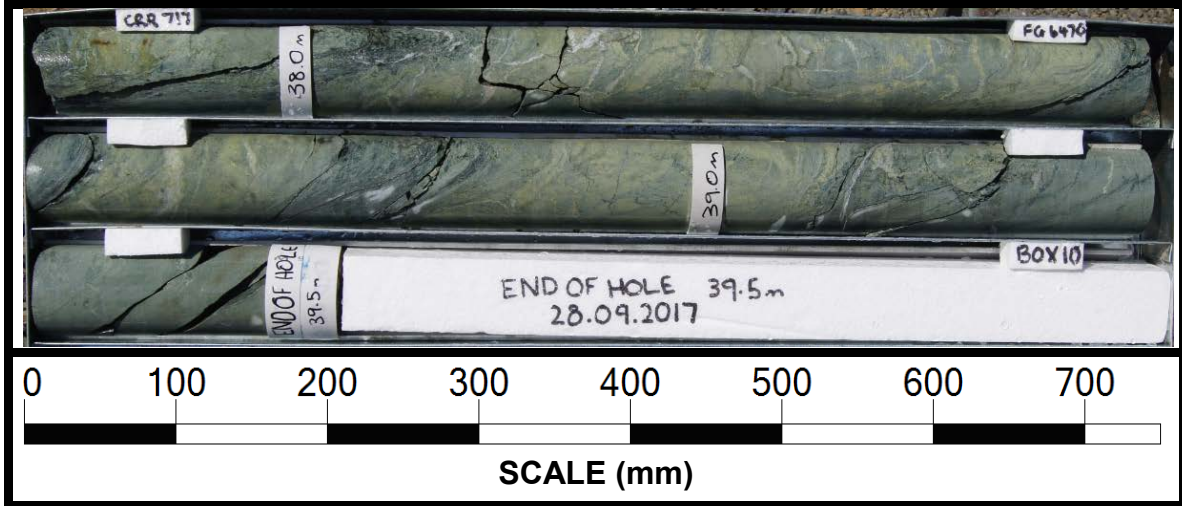
Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	28/09/2017
Borehole No.	CRR717	Reference No.	H12943
Location	Countess Street	Start Depth (m)	11.30
Submitted By	M. de Gee	Finish Depth (m)	39.50



CORE PHOTO LOG
 DEPARTMENT OF TRANSPORT AND MAIN ROADS
 GEOTECHNICAL SECTION



Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	28/09/2017
Borehole No.	CRR717	Reference No.	H12943
Location	Countess Street	Start Depth (m)	11.30
Submitted By	M. de Gee	Finish Depth (m)	39.50



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		Cross River Rail				Project No.		FG6470		
Site ID / Borehole No.		CRR717				Surface RL		20		
Geologist		S.B.				Date		28/09/2017		
						Page		1	of	5
Traverse Chainage; or Down hole depth (rock core)	Type LP / BP / FP / J etc.	Dip ° / Dip Direction °; or Angle ° from horizontal (rock core)	Planarity Stp / Un / PI	Roughness Ro / Sm / SI	Roughness Class I to IX	Aperture CD / OP / FL / TI	Infilling Cn / St / Vr / Ct ¹	Zones ¹ SZ / CZ / HFZ / AZ	Other	
11.30-11.50	FP/J	-	-	Ro	-	OP/FL	St/Vr	HFZ	Cly	
11.60	FP	80	Stp	Ro	I	OP	St			
11.60-11.75	FP/J	-	-	Ro	-	OP/FL	St/Vr	HFZ	Cly	
11.67	FP	80	Stp	Ro	I	OP	St			
11.73	FP	20	Stp	Ro	I	OP	St			
11.87	J	45	PI	Ro	VII	OP	Cn			
11.87	FP	75	Un	Ro	IV	OP	St			
11.93	FP	65	Un	Ro	IV	OP	St			
11.95	J	55	PI	Ro	VII	OP	St			
11.95	FP	80	Un	Ro	IV	OP	St			
12.00	J	55	PI	Ro	VII	OP	St			
12.09	J	40	Stp	Ro	I	OP	St			
12.10	J	30	PI	Ro	VII	OP	St			
12.05-12.30	J	90	Un	Ro	IV	OP	St			
12.25	J	15	Un	Ro	IV	OP	St			
12.25-12.34	FP	60	Un	Ro	IV	OP	St			
12.36	J	50	PI	Ro	VII	CD	St			
12.35-12.47	J	20	Un	Ro	IV	OP	St			
12.47-12.53	FP	60	Un	Ro	IV	OP	St			
12.53	FP/J	75	Un	Ro	IV	OP	St			
12.58	J	85	Un	Ro	IV	OP	St			
12.60	J	65	Un	Ro	IV	OP	St			
12.65-12.75	FP	70	Stp	Ro	I	OP	St			
12.75-12.80									CZ	
12.80-12.85	FP/J	-	-	Ro	-	OP	St	HFZ		
12.92	J	50	Stp	Ro	I	FL	Vr		VN 5mm QZ	
12.98	FP	50	Un	Ro	IV	OP	St			
13.06-18.00	FP	60	Un	Ro	IV	OP	St			
13.12-13.18	FP	60	Un	Ro	IV	OP	St			
13.17	FP	60	Un	Ro	IV	OP	St			
13.18	J	75	Stp	Ro	I	OP	St			

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

F:GEOT 533/9 – 2014

Detailed Discontinuity Description Log



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Project Name		Cross River Rail				Project No.		FG6470	
Site ID / Borehole No.		CRR717				Surface RL		20	
Geologist		S.B.				Date		28/09/2017	
						Page		2 of 5	
Traverse Chainage; or Down hole depth (rock core)	Type LP / BP / FP / J etc.	Dip ° / Dip Direction °; or Angle ° from horizontal (rock core)	Planarity Stp / Un / Pl	Roughness Ro / Sm / Sl	Roughness Class I to IX	Aperture CD / OP / FL / TI	Infilling Cn / St / Vr / Ct ¹	Zones ¹ SZ / CZ / HFZ / AZ	Other
13.29	J	30	Stp	Ro	I	OP	St		
13.37	J	75	Stp	Ro	I	OP	St		
13.55	J	80	Stp	Ro	I	OP	St		
13.60	J	5	Stp	Ro	I	OP	St		
13.64	J/FP	35	Stp	Ro	I	OP	St		10mm
13.84	J/FP	40	Un	Ro	IV	OP	St		
13.67	FP	40	Stp	Ro	I	CD	Stp		
13.90	J	70	Un	Ro	IV	OP	Stp		
14.06-14.09	J	-	-	Ro	-	OP	Stp	HFZ	
14.14-14.21	FP	80	Pl	Ro	VII	OP	Stp		
14.21-14.30	J	-	-	Ro	-	OP	Stp	HFZ	
14.48	FP	80	Stp	Ro	I	OP	Cn		
14.50	FP	80	Un	Ro	IV	OP	Cn		
14.55	FP	80	Un	Ro	IV	OP	Cn		
14.80	J	55	Un	Ro	IV	OP	Cn		VN 5mm
14.93	J	55	Un	Ro	IV	OP	Cn		
15.15	FP	50	Un	Ro	IV	OP	Cn		
15.49-15.57	J	60	Stp	Ro	I	OP	Cn		
15.55	J	90	Un	Ro	IV	OP	Cn		possible DI
16.12	FP	70	Un	Ro	IV	OP	Cn		
16.45	J	15	Stp	Ro	I	OP	Cn		
16.47	FP	65	Un	Ro	IV	OP	Cn		
16.53-16.60	DI								
16.64	J	80	Un	Ro	IV	OP	Cn		
16.80	J	90	Pl	Ro	VII	OP	Cn		
16.80-17.15	J	10	Un	Ro	IV	OP	Cn		
17.05-17.25	J	10	Un	Ro	IV	OP	Cn	HFZ	
17.42-17.83	J	10	Un	Ro	IV	OP	Ct		VN 3mm Qz
17.48	J	70	Un	Ro	IV	OP	Cn		
17.69	J	70	Stp	Ro	I	OP	Cn		
17.83	J	90	Un	Ro	IV	OP	Ct		VN 4mm Qz

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

F:GEOT 533/9 – 2014

Detailed Discontinuity Description Log



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Project Name		Cross River Rail				Project No.		FG6470	
Site ID / Borehole No.		CRR717				Surface RL		20	
Geologist		S.B.				Date		28/09/2017	
						Page		3 of 5	
Traverse Chainage; or Down hole depth (rock core)	Type LP / BP / FP / J etc.	Dip ° / Dip Direction °; or Angle ° from horizontal (rock core)	Planarity Stp / Un / Pl	Roughness Ro / Sm / Sl	Roughness Class I to IX	Aperture CD / OP / FL / TI	Infilling Cn / St / Vr / Ct ¹	Zones ¹ SZ / CZ / HFZ / AZ	Other
18.10-18.21	FP	30	Pl	Ro	VII	OP	Ct		VN 2mm Qz
18.38	FP	60	Un	Ro	IV	OP	Cn		
18.63	J	60	Stp	Ro	I	OP	Cn		
18.76-18.93	FP	60	Un	Ro	IV	OP	Cn		
19.28	J	70	Un	Ro	IV	OP	Cn		
19.40	DI								
19.60-19.72	FP	70	Un	Ro	IV	OP	Cn		
19.73-19.82	FP	70	Un	Ro	IV	OP	Cn		
20.03	J	60	Un	Ro	IV	OP	Cn		
20.28	J	40	Stp	Ro	I	OP	Cn		
20.57	J	20	Un	Ro	IV	OP	Cn		
20.95-21.12	FP	70	Pl	Ro	VII	OP	Cn		
21.31-21.40	FP	10	Pl	Ro	VII	OP	Cn		
21.59	J	90	Un	Ro	IV	OP	Cn		
22.04	FP	50	Un	Ro	IV	OP	Cn		
22.23	FP	50	Un	Ro	IV	OP	Cn		
22.39	FP	50	Un	Ro	IV	OP	Cn		
22.62	FP	50	Un	Ro	IV	OP	Cn		
22.70	FP	50	Un	Ro	IV	OP	Cn		
23.04	FP	50	Un	Ro	IV	OP	Cn		
23.13	FP	50	Un	Ro	IV	OP	Cn		
23.35	FP	10	Un	Ro	IV	OP	Cn		
23.53	J	90	Un	Ro	IV	OP	St		
23.74	FP	30	Un	Ro	IV	OP	Cn		
23.88	FP	40	Un	Ro	IV	OP	Cn		
24.05	J	90	Un	Ro	IV	OP	Cn		
24.33	FP	30	Un	Ro	IV	OP	Cn		
24.60	FP	50	Un	Ro	IV	OP	Cn		
25.05	DI								
25.16	FP	50	Un	Ro	IV	OP	Cn		
25.50	J	60	Stp	Ro	I	OP	Cn		

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

F:GEOT 533/9 – 2014

Detailed Discontinuity Description Log



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Project Name		Cross River Rail				Project No.		FG6470	
Site ID / Borehole No.		CRR717				Surface RL		20	
Geologist		S.B.				Date		28/09/2017	
						Page		4 of 5	
Traverse Chainage; or Down hole depth (rock core)	Type LP / BP / FP / J etc.	Dip ° / Dip Direction °; or Angle ° from horizontal (rock core)	Planarity Stp / Un / Pl	Roughness Ro / Sm / Sl	Roughness Class I to IX	Aperture CD / OP / FL / TI	Infilling Cn / St / Vr / Ct ¹	Zones ¹ SZ / CZ / HFZ / AZ	Other
25.84	FP	65	Pl	Ro	VII	OP	Vr		
25.99	FP	50	Un	Ro	IV	OP	St		
26.52-26.62	FP	70	Un	Ro	IV	OP	Cn		
26.86	FP	60	Un	Ro	IV	OP	Cn		
26.94	J	60	Un	Ro	IV	OP	St		
27.04	J	90	Un	Ro	IV	OP	St		
27.31	FP	20	Stp	Ro	I	OP	Vr		
28.00	J	50	Un	Ro	IV	OP	Cn		
28.28	J	80	Un	Ro	IV	OP	Cn		
28.28	J	85	Un	Ro	IV	OP	Cn		
28.84	FP	40	Un	Ro	IV	OP	Ct		Qz 7mm
29.43	FP	30	Pl	Ro	VII	OP	St		
29.54-29.67								CZ	
29.72	FP	30	Un	Ro	IV	OP	Cn		
29.86-29.95	J	85	Stp	Ro	I	OP	Cn		
30.00	J	85	Un	Ro	IV	OP	Cn		
30.58	FP	45	Un	Ro	IV	OP	Cn		
30.79	FP	30	Un	Ro	IV	OP	Cn		
30.86	FP	40	Un	Ro	IV	OP	Cn		
30.98	J	85	Un	Ro	IV	OP	Cn		
31.53-31.62	FP	30	Un	-	-	CD	Vr		
31.59-31.69	FP	30	Un	Ro	IV	OP	Cn		
31.64-31.76	FP	20	Un	-	-	CD	Vr		
32.17-32.29	FP	10	Un	Ro	IV	CD/OP	Cn		Int
32.26	J	70	Un	Ro	IV	OP	Cn		Int
32.52	FP	50	Un	Ro	IV	OP	Cn		
32.79	FP	30	Un	Ro	IV	OP	Cn		
32.87	FP	50	Un	Ro	IV	OP	Cn		
33.03	FP	10	Un	Ro	IV	OP	Cn		Int
33.03	J	90	Un	Ro	IV	OP	Cn		Int
33.23	FP	30	Un	Ro	IV	OP	Cn		

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

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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		Cross River Rail				Project No.		FG6470	
Site ID / Borehole No.		CRR717				Surface RL		20	
Geologist		S.B.				Date		28/09/2017	
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Traverse Chainage; or Down hole depth (rock core)	Type LP / BP / FP / J etc.	Dip ° / Dip Direction °; or Angle ° from horizontal (rock core)	Planarity Stp / Un / Pl	Roughness Ro / Sm / Sl	Roughness Class I to IX	Aperture CD / OP / FL / TI	Infilling Cn / St / Vr / Ct ¹	Zones ¹	
								SZ / CZ / HFZ / AZ	Other
33.38	FP	40	Un	Ro	IV	OP	Cn		
33.62	FP	50	Un	Ro	IV	OP	Cn		
33.66	FP	30	Un	Ro	IV	OP	Cn		
33.76	FP	10	Un	Ro	IV	OP	Cn		
33.86	J	65	Un	Ro	IV	OP	Cn		
34.66	FP	45	Un	Ro	IV	OP	Cn		
34.75	FP	40	Un	Ro	IV	OP	Cn		
34.92	FP	10	Un	Ro	IV	OP	Cn		
35.16	FP	50	Un	Ro	IV	OP	Cn		
35.57	FP	20	Pl	Ro	VII	OP	Cn		
35.72	FP	30	Pl	Ro	VII	OP	Cn		
36.20-36.26	FP	10	Un	Ro	IV	OP	Ct		QZ
37.43	FP	30	Un	Ro	IV	OP	Cn		
37.80	J	60	Un	Ro	IV	OP	Cn		
37.85-38.02	FP	80	Un	Ro	IV	OP	Cn		
38.03	J	40	Stp	Ro	I	OP	Cn		
38.19	J	50	Stp	Ro	I	OP	Cn		
38.54	FP	60	Un	Ro	IV	OP	Cn		
38.74	FP	60	Pl	Ro	VII	OP	Cn		
38.76	FP	70	Pl	Ro	VII	OP	Cn		
38.80	FP	60	Un	Ro	IV	OP	Ct	HFZ	20mm
39.09	FP	40	Stp	Ro	I	OP	Cn		
39.12-39.21	FP	70	Un	Ro	IV	OP	Cn		
39.38	DI								
39.43	DI								

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

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