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**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **CRR721**

Sheet 1 of 4

REFERENCE No **H12947**

PROJECT **Cross River Rail CRR2017 - Additional Geotechnical Investigation**

LOCATION **TransLink Busway**

COORDINATES **501473.1 E; 6962553.4 N**

PROJECT No **FG6470**

SURFACE RL **27.66m**

PLUNGE **90°**

DATE STARTED **06/09/2017**

GRID DATUM **MGA94**

JOB No

HEIGHT DATUM **AHD**

BEARING °

DATE COMPLETED **11/09/2017**

DRILLER **Schneider**

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CORE DRILLING	RQD (%) %	SAMPLE CORE REC %	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
27.62					ASPHALT (Fill)					0.00m-1.50m: Non destructive drilling		
27.38					REINFORCED CONCRETE (Fill)							
27.25					CONCRETE (Fill)							
					Sandy GRAVEL (Fill)							
1					Yellow, moist to dry. Fine to coarse grained, angular. Fine to coarse grained angular sand.	(GP)						
26.36					ARGILLITE (DCf)							
2					XW: Recovered as Clayey Gravel (GP); orange brown and grey, moist, dense. Fine to coarse grained. High plasticity clay.		XW					
25.66				(0)	ARGILLITE (DCf)							
				100	HW: Orange brown and pale grey, fine grained, foliated, mainly medium strength.		HW	M	E C	Is(50)=0.53 MPa Is(50)=0.05 MPa	D (2.40m) A (2.42m)	
				(13)	With iron staining.					2.61m-2.63m: Clay seam 2.73m-2.75m: Clay seam		
3					-Js: 40°-50° (10/m), Pl-Un/Sm-Ro, TI, FeSt		XW	M	VL-L	2.92m-3.22m: HFZ, XW		
					-FP: 10°-40° (1/m), Pl/Sm, TI, FeSt					3.30m-3.35m: HFZ, XW		
4	23.60				ARGILLITE (DCf)		HW	M	E C	3.55m-3.56m: HFZ, XW 3.72m-3.76m: HFZ	Is(50)=0.19 MPa Is(50)=0.08 MPa	D (3.46m) A (3.47m)
					MW: Pale grey and orange brown, fine grained, foliated, medium to high strength.			M	VC			
5				100	with iron staining. With some quartz bands <5mm parallel to foliation.		MW	MH	E C	Is(50)=0.63 MPa Is(50)=0.90 MPa	D (4.20m) A (4.28m)	
				(74)	-Js: 75°-90° (2/m), Pl-Un/Sm-Ro, TI, FeSt					Is(50)=0.98 MPa Is(50)=3.50 MPa	D (4.72m) A (4.73m)	
	22.16				-FP: 20°-50° (2/m), Pl/Sm, TI, FeSt			H	VC	5.03m-5.05m: Clay seam 5.23m-5.28m: Clay seam 5.28m-5.43m: HFZ		
6					ARGILLITE (DCf)			MH	E C	Is(50)=0.56 MPa Is(50)=0.73 MPa	D (5.55m) A (5.56m)	
					SW: Pale grey and orange brown, fine grained, foliated, high to very high strength.					5.88m-5.92m: HW zone		
7					Iron staining throughout. With some quartz bands parallel to foliation <5mm thick.							
					-FP: 10°-40° (2/m), Pl/Sm, TI, Cn-FeSt		SW	H-VH	C		Is(50)=2.40 MPa Is(50)=2.20 MPa	D (7.10m) A (7.12m)
8				100								
				(88)								
9	18.66				ARGILLITE (DCf)					8.23m-8.42m: HFZ 8.42m-8.53m: Clay, XW	Is(50)=5.10 MPa Is(50)=1.50 MPa Is(50)=0.61 MPa	D (8.12m) D (8.16m) A (8.17m)
					FR: Grey, fine grained, foliated, generally high to very high strength.			VH	M	8.84m-8.86m: XW		
					-FP: 15°-30° (1/m), Pl/Sm, TI, Cn		FR	H-VH	W		Is(50)=3.20 MPa	A (9.14m)
17.66												

Continued on next sheet

REMARKS: DCf - Neranleigh Fernvale Beds

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ZC

S. Foley



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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **CRR721**

Sheet 2 of 4

REFERENCE No **H12947**

PROJECT **Cross River Rail CRR2017 - Additional Geotechnical Investigation**

LOCATION **TransLink Busway**

COORDINATES **501473.1 E; 6962553.4 N**

PROJECT No **FG6470**

SURFACE RL **27.66m**

PLUNGE **90°**

DATE STARTED **06/09/2017**

GRID DATUM **MGA94**

JOB No

HEIGHT DATUM **AHD**

BEARING °

DATE COMPLETED **11/09/2017**

DRILLER **Schneider**

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH										DEFECT SPACING										ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
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BOREHOLE No **CRR721**

Sheet 3 of 4

REFERENCE No **H12947**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation
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LOCATION	TransLink Busway
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COORDINATES 501473.1 E; 6962553.4 N

PROJECT No	FG6470
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SURFACE RL 27.66m

PLUNGE 90°

DATE STARTED 06/09/2017

GRID DATUM MGA94

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BEARING °

DATE COMPLETED 11/09/2017

DRILLER Schneider

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REMARKS: DCf - Neranleigh Fernvale Beds

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GEOTECHNICAL BOREHOLE LOG

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SYMBOLS REFER FORM E:GEOT 017/8-2014

BOREHOLE No **CRR721**

Sheet 4 of 4

REFERENCE No **H12947**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation
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LOCATION	TransLink Busway
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COORDINATES 501473.1 E; 6962553.4 N

PROJECT No	FG6470
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SURFACE RL 27.66m

PLUNGE 90°

DATE STARTED 06/09/2017

GRID DATUM MGA94

JOB No

HEIGHT DATUM AHD

BEARING °

DATE COMPLETED 11/09/2017

DRILLER Schneider

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REMARKS: DCf - Neranleigh Fernvale Beds

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CORE PHOTO LOG
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	11/09/2017
Borehole No.	CRR721	Reference No.	H12947
Location	TransLink Busway	Start Depth (m)	2.00
Submitted By	M. de Gee	Final Depth (m)	34.09



CORE PHOTO LOGDEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	11/09/2017
Borehole No.	CRR721	Reference No.	H12947
Location	TransLink Busway	Start Depth (m)	2.00
Submitted By	M. de Gee	Final Depth (m)	34.09



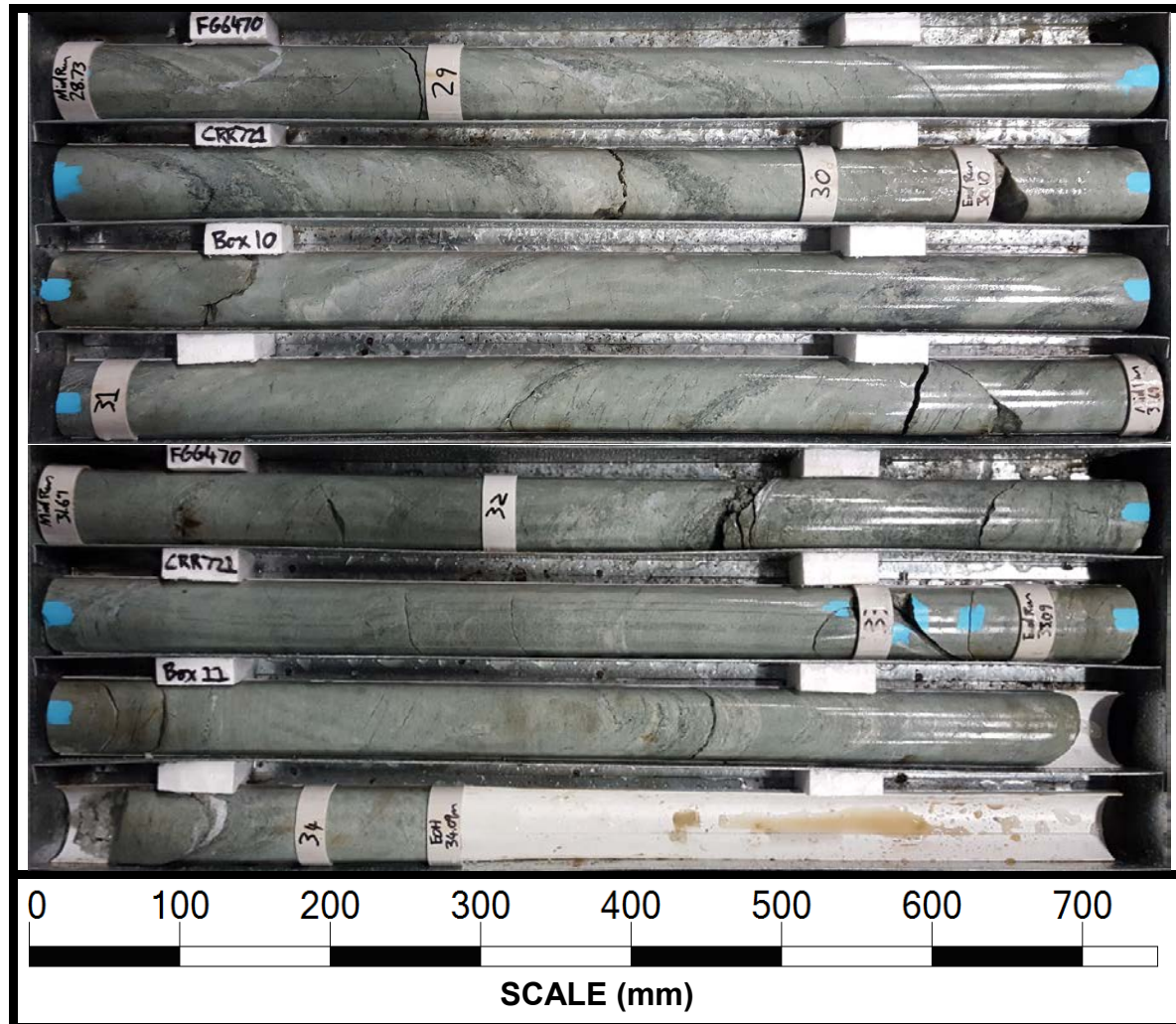
CORE PHOTO LOG
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	11/09/2017
Borehole No.	CRR721	Reference No.	H12947
Location	TransLink Busway	Start Depth (m)	2.00
Submitted By	M. de Gee	Final Depth (m)	34.09



CORE PHOTO LOG
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	11/09/2017
Borehole No.	CRR721	Reference No.	H12947
Location	TransLink Busway	Start Depth (m)	2.00
Submitted By	M. de Gee	Final Depth (m)	34.09



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.		CRR721				Surface RL	28.60		
Geologist		Z.C.				Date	6/11/2017		
						Page	1	of	6
Traverse Chainage; or Down hole depth (rock core)	Type	Dip ° / Dip Direction °;	Planarity	Roughness	Roughness Class	Aperture	Infilling	Zones ¹	Other
	LP /	or				CD /	Cn /	SZ /	
	BP /	Angle ° from	Stp /	Ro /	I to IX	OP /	St /	CZ /	
	FP /	horizontal	Un /	Sm /		FL /	Vr /	HFZ /	
(rock core)	J etc.	(rock core)	PI	SI		TI	Ct ¹	AZ	
2.00	J	40	PI	Sm	VIII	TI	St		Fe
2.06	FP	35	PI	Sm	VIII	CD	St		Fe
2.12	J	70	PI	Ro	VII	TI	St		Fe
2.21	J	40	PI	Sm	VIII	CD	St		Fe
2.25	J	40	PI	Sm	VIII	CD	St		Fe
2.31	J	60	PI	Sm	VIII	CD	St		Fe
2.32	J	20	Un	Ro	IV	TI	St		Fe
2.39	J	70	PI	Sm	VIII	TI	St		Fe
2.45	FP	10	PI	Sm	VIII	TI	St		Fe
2.50	J	70	PI	Sm	VIII	TI	St		Fe
2.57	J	20	Un	Ro	IV	OP	St/Vr		Fe/Clay
2.62								Clay/seam,15mm	
2.69	FP	25	Un	Ro	IV	TI	St		Fe
2.74								Clay/seam,10mm	
2.75	J	85	Un	Ro	IV	TI	St/Vr		Fe/Clay
2.92								HFZ	300mm
3.22	J	50	Un	Ro	IV	TI	St/Vr		Fe/Clay
3.31								HFZ	30mm
3.36	FP	60	PI	Sm	VIII	TI	St		Fe
3.52								HFZ	50mm
3.57	J	70	PI	Ro	V	TI	St		Fe
3.66	J	0	PI	Ro	V	TI	St		Fe
3.70	J	5	PI	Ro	V	TI	St		Fe
3.73								HFZ	40mm
3.77	FP	40	PI	Sm	VIII	TI	St		Fe
3.86	J	20	PI	Ro	V	TI	St		Fe
3.92	J	10	Un	Ro	IV	TI	St		Fe
4.00	J	65	Un	Ro	IV	TI	St		Fe,180mm
4.21	FP	20	PI	Sm	VIII	TI	St		Fe
4.36	FP	35	Un	Sm	V	TI	St		Fe
4.36	J	85	PI	Sm	VIII	CD	St	HFZ	Fe

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

F:GEOT 533/9 – 2014

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Project Name		Cross River Rail				Project No.		FG6470	
Site ID / Borehole No.		CRR721				Surface RL		28.60	
Geologist		Z.C.				Date		6/11/2017	
						Page		2 of 6	
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
4.50	J	15	Un	Sm	V	CD	St		Fe
4.82	J	40	Pl	Ro	VIII	TI	St		Fe
4.86	J	20	Pl	Ro	VIII	TI	St		Fe
4.90	J	15	Un	Ro	IV	TI	St		Fe
5.02								Clay/seam ,20mm	
5.07								HFZ	20mm
5.09	J	20	Pl	Ro	VII	TI	St		Fe
5.18	J	15	Pl	Ro	VII	TI	St		Fe
5.24								Clay/seam ,40mm	
5.28								HFZ	160mm
5.44	FP	10	Pl	Sm	VIII	TI	St		Fe
5.49	FP	40	Pl	Sm	VIII	TI	St		Fe
5.67	FP	30	Pl	Sm	VIII	TI	St		Fe
5.83	FP	30	Pl	Sm	VIII	TI	St		Fe
5.87								HFZ	60mm
6.09	FP	10	Pl	Sm	VIII	TI	St		Fe
6.37	FP	40	Pl	Sm	VIII	TI	St		Fe
6.66	FP	5	Pl	Sm	VIII	TI	St		Fe
6.83	FP	10	Pl	Sm	VIII	TI	St		Fe
6.87	FP	5	Pl	Sm	VIII	TI	St		Fe
7.20	FP	10	Pl	Sm	VIII	TI	St		Fe
7.37	FP	10	Pl	Sm	VIII	TI	St		Fe
7.48	FP	10	Pl	Sm	VIII	TI	St		Fe
7.60	FP	10	Pl	Sm	VIII	TT	Cn		
7.92	FP	10	Pl	Sm	VIII	TI	St		Fe
8.24	J	10	Un	Ro	IV	TI	St		Fe
8.30								HFZ	150mm
8.45								Clay/seam 90mm	
8.54	J	10	Pl	Sm	VIII	TI	Vr/St		Fe/Clay
8.83								Clay/seam, 20mm	
8.85	J	5	Pl	Sm	VIII	TI	Vr/St		Fe/Clay

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

F:GEOT 533/9 – 2014

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Site ID / Borehole No.		CRR721				Surface RL	28.60		
Geologist		Z.C.				Date	6/11/2017		
						Page	3	of	6
Traverse Chainage; or Down hole depth (rock core)	Type	Dip ° / Dip Direction °;	Planarity	Roughness	Roughness Class	Aperture	Infilling	Zones ¹	Other
	LP /	or				CD /	Cn /	SZ /	
	BP /	Angle ° from	Stp /	Ro /	I to IX	OP /	St /	CZ /	
	FP /	horizontal	Un /	Sm /		FL /	Vr /	HFZ /	
J etc.	(rock core)	PI	SI			TI	Ct ¹	AZ	
9.70	FP	10	PI	Sm	VIII	TI	St		Fe
10.55	FP	30	PI	Sm	VIII	TI	Cn		
10.60	J	0	PI	Ro	VII	TI	Cn		
10.74	J	5	PI	Sm	VIII	TI	Cn		
10.80								HFZ	
10.85	J	10	PI	Sm	VIII	TI	Cn		
11.19	J	40	PI	Ro	VII	TI	St		Fe
11.39	J	70	PI	Sm	VIII	TI	St		Fe
11.51	J	10	PI	Ro	VII	TI	St		
11.93	FP	15	PI	Sm	VIII	TI	Cn		
12.14	FP	15	PI	Sm	VIII	TI	Cn		
12.40	FP	20	PI	Sm	VIII	TI	St		Fe
12.76	FP	30	PI	Sm	VIII	TI	St		Fe
13.07	J	10	Un	Ro	IV	TI	St		Fe
13.14	FP	40	PI	Sm	VIII	TI	St/Vr		Fe/Clay
13.17	J	45	PI	Sm	VIII	TI	Cn		Clay
13.20	FP	50	PI	Sm	VIII	TI	Vr		Clay
13.26	FP	60	PI	Sm	VIII	TI	Vr/St		Fe
13.40	J	5	PI	Ro	VII	TI	Cn		
13.52	J	20	PI	Sm	VIII	TI	Cn		
13.74								HFZ	10mm
14.03	J	20	PI	Sm	VIII	TI	Vr		Clay
14.29	FP	30	PI	Sm	VIII	TI	Cn		Fe
14.63	FP	30	PI	Sm	VIII	TI	Cn		Fe
14.86	FP	40	PI	Ro	VII	TI	St		Fe
14.91	J	0	PI	Sm	VIII	TI	St		Fe
15.13	FP	20	PI	Sm	VIII	TI	Cn		
15.21	J	20	PI	Ro	VII	TI	St		
15.26	J	10	PI	Ro	VII	TI	St		
15.51	FP	40	PI	Sm	VIII	TI	St		
15.87	J	5	PI	Sm	VIII	TI	Cn		

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

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Site ID / Borehole No.		CRR721				Surface RL		28.60	
Geologist		Z.C.				Date		6/11/2017	
						Page		4 of 6	
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 / SI	Roughness Class I to IX	Aperture CD / OP / FL / TI	Infilling Cn / St / Vr / Ct ¹	Zones ¹ SZ / CZ / HFZ / AZ	Other
16.02	J	5	Pl	Sm	VIII	TI	Cn		
17.05	FP	30	Pl	Sm	VIII	TI	Cn		
17.50	FP	30	Pl	Sm	VIII	TI	Cn		
17.82	FP	10	Pl	Sm	VIII	TI	Cn		
17.93	FP	10	Pl	Sm	VIII	CD	Cn		
17.95	FP	10	Pl	Sm	VIII	CD	Cn		
18.01	FP	10	Pl	Sm	VIII	TI	Cn		
18.03	FP	10	Pl	Sm	VIII	TI	Cn		
18.13	J	70	Pl	Sm	VIII	TI	Cn		
18.55	FP	15	Pl	Sm	VIII	TI	Cn		
18.86	J	0	Pl	Sm	VIII	TI	Cn		
19.48	J	20	Pl	Sm	VIII	TI	Cn		
19.97	J	20	Un	Ro	IV	TI	Cn		
20.12	FP	50	Pl	Sm	VIII	TI	Cn		
20.27	J	80	Pl	Sm	VIII	CD	Cn		
20.34	J	5	Pl	Sm	VIII	TI	Cn		
20.39	J	5	Pl	Sm	VIII	TI	Cn		
20.63	J	5	Pl	Sm	VIII	TI	Cn		
20.66	J	10	Pl	Ro	VII	TI	St		
20.70	J	10	Pl	Sm	VIII	TI	Cn		
21.01	J	0	Pl	Ro	VII	TI	Cn		
21.12	FP	15	Pl	Sm	VIII	TI	Cn		
21.26	J	0	Pl	Sm	VIII	TI	Cn		
22.54	FP	55	Pl	Sm	VIII	TI	Cn		
22.68	FP	50	Pl	Sm	VIII	TI	Cn		
23.02	J	20	Un	Ro	IV	TI	Cn		
23.14	FP	60	Pl	Sm	VIII	TI	Cn		
23.94	J	70	Pl	Ro	VII	TI	Cn		
24.10	J	10	Un	Ro	IV	TI	Cn		
24.48	J	15	Pl	Ro	VII	TI/CD	Cn		
24.49	J	15	Pl	Sm	VIII	TI	Cn		

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

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Site ID / Borehole No.		CRR721				Surface RL	28.60		
Geologist		Z.C.				Date	6/11/2017		
						Page	5	of	6
Traverse Chainage; or Down hole depth (rock core)	Type	Dip ° / Dip Direction °;	Planarity	Roughness	Roughness Class	Aperture	Infilling	Zones ¹	Other
	LP /	or				CD /	Cn /	SZ /	
	BP /	Angle ° from	Stp /	Ro /	I to IX	OP /	St /	CZ /	
	FP /	horizontal	Un /	Sm /		FL /	Vr /	HFZ /	
(rock core)	J etc.	(rock core)	PI	SI		TI	Ct ¹	AZ	
24.89	FP	30	PI	Sm	VIII	TI	Cn		
24.94	FP	30	PI	Sm	VIII	TI	Cn		
24.26	J	55	PI	Sm	VIII	CD	Cn		
24.32	J	55	PI	Sm	VIII	TI	Cn		
24.93	J	20	PI	Ro	VIII	TI	Cn		
25.29	J	0	PI	Sm	VIII	TI	Cn		
25.85	FP	30	PI	Sm	VIII	TI	Cn		
27.13	J	60	PI	Ro	VII	TI	Cn		
27.17	J	10	PI	Ro	VII	TI	Cn		
27.18	J	5	PI	Sm	VIII	TI	Cn		
27.55								HFZ	40mm
27.59	FP	10	PI	Sm	VIII	TI	Cn		
28.96	FP	15	PI	Sm	VIII	TI	Cn		
29.30	J	50	PI	Sm	VIII	CD/TI	Cn		
29.85	J	15	Un	Ro	IV	TI	Cn		
30.10	J	25	Un	Sm	V	TI	Cn		
30.33	J	40	Un	Ro	IV	TI	Cn		
31.28	FP	40	PI	Sm	VIII	TI	Cn		
31.53	J	15	Un	Ro	IV	TI	Cn		
31.57	J	30	PI	Sm	VIII	TI	Cn		
31.79	J	30	PI	Ro	VII	TI	Cn		
31.88	J	15	Un	Ro	IV	TI	Cn		
32.13								HFZ	30mm
32.16	J	15	Un	Ro	IV	TI	Cn		
32.33	J	25	PI	Ro	VII	TI	Cn		
32.48	FP	25	PI	Sm	VIII	TI	Cn		
32.67	J	10	PI	Sm	VIII	TI	Cn		
32.74	J	15	PI	Ro	VII	TI	Cn		
33.09	FP	10	PI	Sm	VIII	TI	Cn		
33.21	J	30	PI	Sm	VIII	TI	Cn		
33.24	J	15	PI	Sm	VIII	TI	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.		CRR721				Surface RL		28.60	
Geologist		Z.C.				Date		6/11/2017	
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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
33.62	FP	10	Pl	Sm	VIII	TI	Cn		
33.86	J	75	Pl	Ro	VII	TI	Cn		

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

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