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**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **CRR713**

Sheet 1 of 5

REFERENCE No **H12939**

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

LOCATION **Albert Street / Station Cavern**

COORDINATES **502584.1 E; 6961471.4 N**

PROJECT No **FG6470**

SURFACE RL **5.62m**

PLUNGE **90°**

DATE STARTED **17/01/2018**

GRID DATUM **MGA94**

JOB No

HEIGHT DATUM **AHD**

BEARING °

DATE COMPLETED **24/01/2018**

DRILLER **Schneider**

DEPTH (m)	R.L. (m)	BOREHOLE Casing Washing Cone Drilling	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
	5.52					ASPHALT					0.00m-3.00m: NDD vacuum excavation.	
	4.72					Silty Clayey GRAVEL (Fill)		(GC)				
	4.62					Grey-brown and yellow-brown, dry, medium dense. Coarse grained gravel, angular.						
1						TUFF COBBLES (Fill)						
						Orange-brown. Trace fine sand.						
						Silty CLAY (Alluvium)		(CI)				
						Brown-grey, moist, stiff.						
2						Medium plasticity; trace organic material.						
	3.12					Sandy CLAY (Alluvium)						
						Brown and orange-brown, moist, stiff.						
3					A	High plasticity; fine grained sand; trace fine gravel, angular.					rw, 2, 10 N=12	SPT
4					B	4.0m: Becoming very stiff, sand content increasing.		CI			6, 8, 11 N=19 LL=36% PI= 19% MC=22.3% LS= 10% <75µm= 48%	SPT
5					C	5.0m: Becoming soft to firm.					3, 2, 2 N=4	SPT
6					D	6.0m: Becoming CLAY with Sand, stiff.					3, 5, 7 N=12 LL=48% PI= 29% MC=32.1% LS= 14% <75µm= 80%	SPT
	-0.68					Clayey Gravelly SAND (Residual)						
						Orange-grey, moist, medium dense to dense.						
7					E	Fine grained sand; low plasticity clay; fine angular gravel.		(SC)			4, 8, 12 N=20	SPT
8					F	8.0m: Becoming Gravelly Clayey SAND.					7, 16, 24 N=40 LL=40% PI= 20% MC=17.5% LS= 10% <75µm= 45%	SPT
	-2.88											
						ARGILLITE (Dcf)						
9						XW: Recovered as Clayey GRAVEL.		XW				
						Orange-grey, moist, dense.						
	-4.38				(0)	CORE LOSS						

Continued on next sheet

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

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GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
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BOREHOLE No **CRR713**

Sheet 2 of 5

REFERENCE No **H12939**

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

LOCATION **Albert Street / Station Cavern**

COORDINATES **502584.1 E; 6961471.4 N**

PROJECT No **FG6470**

SURFACE RL **5.62m**

PLUNGE **90°**

DATE STARTED **17/01/2018**

GRID DATUM **MGA94**

JOB No

HEIGHT DATUM **AHD**

BEARING °

DATE COMPLETED **24/01/2018**

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																																																																																																																																																																																									
								EH _L _H _M _L _V _EL	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW			EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW	EC _L _C _M _W _VW _EW

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

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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **CRR713**

Sheet 3 of 5

REFERENCE No **H12939**

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

LOCATION **Albert Street / Station Cavern**

COORDINATES **502584.1 E; 6961471.4 N**

PROJECT No **FG6470**

SURFACE RL **5.62m**

PLUNGE **90°**

DATE STARTED **17/01/2018**

GRID DATUM **MGA94**

JOB No

HEIGHT DATUM **AHD**

BEARING °

DATE COMPLETED **24/01/2018**

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
SYMBOLS REFER FORM E:GEOT 017/8-2014

BOREHOLE No **CRR713**

Sheet 4 of 5

REFERENCE No **H12939**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation
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LOCATION	Albert Street / Station Cavern
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COORDINATES 502584.1 E; 6961471.4 N

PROJECT No	FG6470
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SURFACE RL 5.62m

PLUNGE 90°

DATE STARTED 17/01/2018

GRID DATUM MGA94

JOB No

HEIGHT DATUM AHD

BEARING °

DATE COMPLETED 24/01/2018

DRILLER Schneider

[illegible]

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

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GEOTECHNICAL
BOREHOLE LOG

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BOREHOLE No **CRR713**
Sheet 5 of 5
REFERENCE No **H12939**

PROJECT Cross River Rail CRR2017 - Additional Geotechnical Investigation

LOCATION Albert Street / Station Cavern COORDINATES 502584.1 E; 6961471.4 N

PROJECT No FG6470 SURFACE RL 5.62m PLUNGE 90° DATE STARTED 17/01/2018 GRID DATUM MGA94

JOB No HEIGHT DATUM AHD BEARING ° DATE COMPLETED 24/01/2018 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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	HA	S. Foley

CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	24/01/2018
Borehole No.	CRR713	Reference No.	H12939
Location	Albert Street / Station Cavern	Start Depth (m)	9.50
Submitted By	J. Armstrong	Finish Depth (m)	40.05



CORE PHOTO LOG
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
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DEPARTMENT OF TRANSPORT AND MAIN ROADS
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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	24/01/2018
Borehole No.	CRR713	Reference No.	H12939
Location	Albert Street / Station Cavern	Start Depth (m)	9.50
Submitted By	J. Armstrong	Finish Depth (m)	40.05



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.		CRR713				Surface RL		5.62	
Geologist		H.A.				Date		24/01/2018	
						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 / 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
10.40-10.72								HFZ	
10.78	FP	45	Pl	Ro	VII	TI	Vr		Cly
10.94	FP	10	Pl	Ro	VII	OP	St		Fe
10.99	FP	2	Pl	Ro	VII	OP	St		Fe+Cly
11.14	FP	30	Pl	Ro	VII	TI	St		Fe+Cly
11.19	J	30	Pl	Ro	VII	TI	St		Fe
11.25	FP	45	Pl	Ro	VII	TI	St		Fe
11.32	FP	45	Pl	Ro	VII	TI	St		Fe
11.38	FP	45	Pl	Ro	VII	TI	St		Fe
11.40	FP	55	Pl	Ro	VII	TI	St		Fe
11.55	FP	45	Pl	Ro	VII	TI	St		Fe
11.64	FP	30	Pl	Ro	VII	OP	St		Fe
11.88	FP	45	Pl	Ro	VII	OP	St		Fe
11.98	FP	25	Pl	Ro	VII	OP	St		Fe
12.11	FP	20	Pl	Ro	VII	OP	St		Fe
12.15	FP	20	Pl	Ro	VII	OP	St		Fe
12.72	FP	45	Pl	Ro	VII	OP	St		Fe
12.85	FP	45	Pl	Ro	VII	TI	St		Fe
12.90	FP	45	Pl	Ro	VII	OP	St		Fe
12.97	FP	45	Pl	Ro	VII	TI	St		Fe
13.06	J	45	Pl	Ro	VII	TI	Vr		Sinf
13.17	FP	30	Pl	Ro	VII	TI	Vr		Sinf
13.30	FP	45	Pl	Ro	VII	TI	St		Fe
13.37	FP	45	Pl	Ro	VII	TI	St		Fe
13.56	FP	45	Pl	Ro	VII	TI	St		Fe
13.67	FP	45	Pl	Ro	VII	TI	St		Fe
13.75	FP	45	Pl	Ro	VII	TI	St		Fe
13.84	FP	45	Pl	Ro	VII	TI	St		Fe
14.44	FP	45	Pl	Ro	VII	TI	St		Fe
14.50	FP	45	Pl	Ro	VII	TI	St		Fe
14.60	FP	45	Pl	Ro	VII	TI	St		Fe

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.		CRR713				Surface RL	5.62		
Geologist		H.A.				Date	24/01/2018		
						Page	2	of	5
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	
14.65	J	45	PI	Ro	VII	OP	St		Fe
14.81	FP	45	PI	Ro	VII	OP	St		Fe
15.15	FP	40	PI	Ro	VII	TI	St		Fe
15.17	FP	45	PI	Ro	VII	TI	Vr		Cly
15.23	FP	10	PI	Ro	VII	OP	St		Fe
15.29	FP	30	PI	Ro	VII	OP	St		Fe
15.32	FP	45	PI	Ro	VII	OP	St		Fe
15.40	FP	40	PI	Ro	VII	OP	St		Fe
15.58	J	30	PI	Ro	VII	OP	St		Fe
15.60	FP	40	PI	Ro	VII	OP	St		Fe
15.79	FP	45	PI	Ro	VII	OP	St		Fe
15.92	FP	45	PI	Ro	VII	TI	Vr		Cly
16.48	FP	30	PI	Ro	VII	OP	St		Fe
16.85	FP	20	PI	Ro	VII	OP	St		Fe
17.21	FP	15	PI	Ro	VII	OP	St		Fe
17.54	FP	40	PI	Ro	VII	OP	Cn	HFZ	
17.62	FP	20	PI	Ro	VII	TI	Cn		
17.65	FP	30	Un	Ro	IV	TI	Cn		
17.71	FP	20	PI	Ro	VII	OP	Cn		
17.78	FP	20	PI	Ro	VII	OP	Cn		
17.82	FP	10	PI	Ro	VII	OP	Cn		
17.85	FP	10	PI	Ro	VII	TI	Cn		
18.30	FP	2	PI	Ro	VII	OP	Cn		
18.37	FP	45	PI	Ro	VII	OP	Cn		
18.44	FP	10	PI	Ro	VII	OP	Cn		
18.48	FP	25	PI	Ro	VII	OP	Cn		
18.52	FP	5	PI	Ro	VII	OP	Cn		
18.70	FP	45	PI	Ro	VII	TI	Cn		
18.81	FP	25	PI	Ro	VII	TI	Cn		
18.90	J	45	PI	Ro	VII	OP	Cn		
18.98	FP	20	PI	Ro	VII	OP	Cn		

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

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Detailed Discontinuity Description Log

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Project Name		Cross River Rail				Project No		FG6470	
Site ID / Borehole No.		CRR713				Surface RL		5.62	
Geologist		H.A.				Date		24/01/2018	
						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
19.07	FP	15	Pl	Ro	VII	OP	Cn		
19.41	FP	5	Pl	Ro	VII	OP	Cn		
19.51	FP	24	Pl	Ro	VII	OP	Cn		
19.77	FP	45	Pl	Ro	VII	OP	Cn		
20.22	FP	30	Pl	Ro	VII	OP	Cn		
20.65	J	45	Pl	Ro	VII	OP	Cn		
20.91	FP	15	Pl	Ro	VII	OP	Cn	HFZ	
21.03	FP	25	Pl	Ro	VII	OP	Cn		
21.39	FP	10	Un	Ro	IV	OP	Cn		
21.81	FP	10	Un	Ro	IV	OP	Cn		
21.94	FP	45	Pl	Ro	VII	OP	Cn		
22.07	FP	45	Pl	Ro	VII	OP	Cn		
22.90	FP	45	Pl	Ro	VII	OP	Cn		
23.02	FP	15	Pl	Ro	VII	OP	Cn		
23.06	FP	10	Pl	Ro	VII	OP	Cn		
23.11	FP	10	Pl	Ro	VII	OP	Cn		
23.67	FP	5	Pl	Ro	VII	OP	Cn		
24.03	FP	5	Pl	Ro	VII	OP	Cn		
24.96	FP	2	Pl	Ro	VII	OP	Cn		
25.11	FP	5	Pl	Ro	VII	OP	Cn		
25.34	FP	15	Pl	Ro	VII	OP	Cn		
25.83	FP	40	Pl	Ro	VII	OP	Cn		
26.15	FP	40	Pl	Ro	VII	OP	Cn		
26.21	FP	40	Pl	Ro	VII	OP	Cn		
26.25	FP	30	Pl	Ro	VII	OP	Cn	HFZ	
26.36	FP	5	Pl	Ro	VII	OP	Cn		
26.73	FP	5	Pl	Ro	VII	OP	Cn		
27.03	FP	15	Pl	Ro	VII	OP	Cn		
27.23	J	5	Pl	Ro	VII	OP	Cn		
27.82	FP	2	Pl	Ro	VII	OP	Cn		
28.42	FP	25	Pl	Ro	VII	OP	Cn		

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

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Detailed Discontinuity Description Log

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Project Name		Cross River Rail				Project No		FG6470	
Site ID / Borehole No.		CRR713				Surface RL		5.62	
Geologist		H.A.				Date		24/01/2018	
						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 / SI	Roughness Class I to IX	Aperture CD / OP / FL / TI	Infilling Cn / St / Vr / Ct ¹	Zones ¹ SZ / CZ / HFZ / AZ	Other
28.54	FP	40	Pl	Ro	VII	OP	Cn		
28.60	FP	20	Pl	Ro	VII	OP	Cn		
28.64	FP	10	Un	Ro	IV	OP	Cn		
28.69	FP	30	Pl	Ro	IV	OP	Cn		
29.32	FP	10	Pl	Ro	IV	OP	Cn		
29.78	FP	45	Pl	Ro	IV	OP	Cn		
29.87	FP	20	Pl	Ro	IV	OP	Cn		
30.38	FP	15	Pl	Ro	IV	OP	Cn		
30.62	FP	30	Pl	Ro	IV	OP	Cn		
30.81	FP	10	Pl	Ro	IV	OP	Cn		
30.85	J	45	Pl	Ro	IV	OP	Cn		
30.88	FP	10	Pl	Ro	IV	OP	Cn		
31.15	FP	5	Pl	Ro	IV	OP	Cn		
31.18	J	50	Pl	Ro	IV	OP	Cn		
31.49	FP	35	Pl	Ro	IV	OP	Cn		
31.94	FP	15	Pl	Ro	IV	OP	Cn		
32.45	FP	15	Pl	Ro	IV	OP	Cn		
32.97	FP	30	Pl	Ro	IV	OP	Cn		
33.02	FP	35	Pl	Ro	IV	OP	Cn		
33.06	FP	45	Pl	Ro	IV	OP	Cn		
33.08	FP	45	Pl	Ro	IV	OP	Cn		
33.32	J	10	Pl	Ro	IV	OP	Cn		
33.34	J	5	Pl	Ro	IV	OP	Cn		
33.78	FP	10	Pl	Ro	IV	OP	Cn		
33.85	FP	20	Pl	Ro	IV	OP	Cn		
34.40	FP	10	Pl	Ro	IV	OP	Cn		
35.18	FP	15	Pl	Ro	IV	OP	Cn		
35.71	FP	40	Pl	Ro	IV	OP	Cn		
35.80	FP	45	Pl	Ro	IV	OP	Cn		
36.89	FP	20	Pl	Ro	IV	OP	Cn		
37.07	J	5	Pl	Ro	IV	OP	Cn		

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

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