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Queensland Government

GEOTECHNICAL BOREHOLE LOG

FINAL 02/03/2018

BOREHOLE No CRR729

Sheet 1 of 2

		×.	No.	Go	V	ernment		SYN		GEOTECHNICAL TE REFER FORM F:GE			REFERENC	Œ No	H1	.2955
ROJEC	Г	(Cros	s River	Rail	CRR2017 - Additional	Geotechnical Ir	vest	igatio	on	,					
OCATIO	ON	F	RNA	showg	rour	nds							coordinates 50	02889.1	E; 696363	37.0 N
ROJEC	ΓΝο		FG6470 SURFACE RL 12.36m							0°	DATE STAR	TED 27/09/201	7 GRID	DATUM N	1GA94	
OB No		_				HEIGHT DATUM	AHD	BEARING DATE COMPLE			ETED 28/09/2017 DRILLER Schneider					
DEPTH (m)	R.L. (m)	AUGER	WASH BORING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESC	CRIPTION	ГІТНОГОБУ	USCS WEATHERING	INTACT STRENGTH 표	DEFECT SPACING	0.00m-0.60m: Nor	ADDITIONAL DA' AND TEST RESULTS			SAMPLES TESTS
	11.76		l			Gravelly SAND (Fill) Grey, moist to dry, fin grained. Fine grained, gravel.			(SP)	- - - - -	-	drilling.	ruestructive			
- 1 - 1 - 2 - 3 - 3 - 4 - 4 - 5 - 5 - 6 - 7 - 7 - 9	9.56			(0) 30 (66) 100 (87)		SAND with Gravel (Fill Brown, some orange, coarse grained sand, grains. Fine to coarse nounded gravel. Gravelly CLAY with Sa Brown orange with so wet, very stiff to hard plasticity. Fine to coarsub angular to angular to angular to angular to angular to coarse grained san angular to angular to coarse grained san to coarse grained san angular to angular to coarse clasts within fine grain massive, medium stre-Js: 0°-15° (5/m), Un/5FeSt Js: 40°-60° (2/m), Pl/FeSt TUFF (Rif) SW: Purple pale grey fine gravel sized clasts grained matrix, massi strength. With some i-Js: 0°-10° (2/m), Un/5-Js: 40°-50° (2/m), Pl/Sis: 40°-5	dry, fine to sub rounded grained, nd (Fill) ome grey red, , medium rse grained, ir gravel. Fine d. Trace sub bbles. e mottled e gravel sized ned matrix, ength. Sm, OP, Cly Ct, minor orange, s within fine ve, very high iron staining. Sm, OP, Fe St		CI MW XW	VH VH	M	3.50m-3.83m: XW plasticity, grey. 3.86m-3.90m: MW		LL=: MC=24 Su(Is(5) I	6, 30/80mm 99% Pl= 25% 50 50 50 50 50 50 50	SPT D (3.22m) A (3.25m) A (3.25m) D (4.15m) D (4.37m) A (4.42m) D (5.26m) D (5.28m) D (5.28m) D (6.61m) D (6.61m) D (6.61m) D (6.818m) D (8.84m) D (8.84m) D (8.84m)
	2.36							9		н-vн	ECC				0)=3.00 MPa 0)=5.90 MPa	A (9.51m) _ D (9.56m) _ _
				_		Continued on ne	ext sheet								'	
RE	MAR	KS:	:	Rif - Bı	risb	ane Tuff							LOGGEI	D BY	REVIE	WED BY
	ZC S. Foley															

Queensland Government

GEOTECHNICAL BOREHOLE LOG

FINAL 02/03/2018

CRR729

BOREHOLE No

Sheet 2 of 2 FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 H12955 REFERENCE No Cross River Rail CRR2017 - Additional Geotechnical Investigation PROJECT COORDINATES 502889.1 E; 6963637.0 N RNA showgrounds LOCATION FG6470 SURFACE RL 12.36m PLUNGE 90° DATE STARTED 27/09/2017 grid datum MGA94 PROJECT No HEIGHT DATUM AHD BEARING ° DATE COMPLETED 28/09/2017 DRILLER Schneider JOB No ADDITIONAL DATA AND TEST RESULTS RQD ()% USCS WEATHERING INTACT STRENGTH DEFECT SPACING SAMPLES TESTS LITHOLOGY DEPTH (m) SAMPLE R.L. MATERIAL DESCRIPTION CORE REC % ᇳᆃᆂᄝᅿᆿᇜᇬᇬᄝᇂᇂᇕ 2.21 100 SW TUFF (Rif) ŞW: Cont'd. Borehole completed at 10.15m 15 16 REMARKS: Rif - Brisbane Tuff **LOGGED BY REVIEWED BY** ZC S. Foley TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

CORE PHOTO LOG DEPARTMENT OF TRANSPORT AND MAIN ROADS GEOTECHNICAL SECTION



Project Name	Cross River Rail CRR2017 – Geotechnical Investigation							
Project No.	FG6470	Date	27/09/2017					
Borehole No.	CRR729	Reference No.	H12955					
Location	RNA Showgrounds	Start Depth (m)	1.15					
Submitted By	M. de Gee	Finish Depth (m)	10.15					



1

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 Nar	ne	Cross Rive	r Rail			Project No.	FG6470			
Site ID / Bo	rehole No.	CRR729				Surface RL	12.36			
Geologist		Z.C.				Date	27/09/2017			
						Page	1	of	2	
Traverse	Туре	Dip ° / Dip	Planarity	Roughness	Roughness	Aperture	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		
3.02	J	10°	Un	Sm	٧	OP	Cn			
3.02	J	80°	PI	Sm	VIII	OP	Ct		Cly	
3.10	J	40°	Stp	Sm	VIII	OP	Ct		Sm	
3.13	J	30°	Un	Sm	II	OP	Ct		Cly	
3.45	J	10°	Un	Sm	V	OP	Ct		Cly	
3.48	J	5°	Un	Sm	V	OP	Cn		Cly	
3.51	J	10°	Un	Ro	IV	OP	Ct		Cly	
3.61	Seam	10°	Un	Sm	V	OP	Ct, St		Cly Seam, Fo	
3.82	J	5°	Un	Sm	V	OP	Ct		Cly	
3.87	J	5°	Un	Sm	V	OP	Cn			
3.89	J	50°	PI	Sm	VIII	OP	Cn			
4.29	J	3°	Un	Sm	V	CD	St		Fe	
4.46	J	10°	Un	Sm	V	OP	Cn			
4.56	J	55°	Un	Sm	٧	OP	Cn			
4.76	J	5°	Un	Sm	V	OP	St		Fe	
5.36	J	10°	Un	Sm	V	OP	St		Fe	
5.39	Cz	85°	Un	Ro	IV	OP	St,Ct	CZ, 10mm	Fe, Gravel	
5.40	J	30°	Un	Sm	٧	CD	St		Fe	
5.55	J	5°	Un	Sm	V	OP	St		Fe	
5.87	Cz	5°	Un	Ro	IV	OP	St,Ct	CZ, 10mm	Fe	
5.88	J	10°	Un	Sm	V	OP	St	F	e,Gravel/Cla	
6.46	J	10°	Un	Sm	V	OP	St		Fe	
6.87	J	10°	Un	Sm	V	OP	St		Fe	
6.96	J	50°	Un	Sm	V	OP	St		Fe	
7.06	J	50°	Pl	Ro	VII	OP	St		Fe	
7.07	J	40°	Un	Ro	IV	CD	St			
7.36	J	4°	PI	Sm	VIII	OP	St		Fe	
7.56	J	7°	Un	Sm	V	OP	Cn		Fe	
7.71	J	40°	Un	Sm	V	OP	St		Fe	
8.02	J	30°	Un	Sm	V	OP	St			
8.75	J	15°	Un	Sm	٧	OP	Cn		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 Nan	ne	Cross Rive	r Rail			Project No.	FG6470			
Site ID / Bo	rehole No.	CRR729				Surface RL	12.36			
Geologist		Z.C.				Date	27/09/2017			
		•				Page	2	of	2	
Traverse	Туре	Dip ° / Dip	Planarity	Roughness	Roughness	Aperture	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		
9.34	J	40°	PI	Sm	VIII	OP	St		Fe	
9.46	J	80°	Un	Sm	V	CD	St		Fe	
9.78	J	25°	Un	Sm	V	CD	St		Fe	
10.01	J	10°	Un	Sm	V	OP	Cn		Fe	

 $\textit{Note:} \ \textbf{1.} \ \ \textbf{Describe zones and coatings in terms of composition and thickness (mm)}$

F:GEOT 533/9 - 2014