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				FI	INAL 02/03/2018
** THE	AC	G	EOTECHNICAL	BOREHOLE No	CRR738
Queensland		B	OREHOLE LOG	Sheet 1 o	f 1
13 P	Government		OR GEOTECHNICAL TERMS AND DLS REFER FORM F:GEOT 017/8-2014	REFERENCE No	H12964
PROJECT	Cross River Rail CRR2017 - Additional Geo	otechnical Investiga	tion		
OCATION	QR land (Mayne Yard)			COORDINATES 503886.4 E;	6964918.2 N
ROJECT No	FG6470 SURFACE RL 4.14	4m plunge	e 90° date staf	RTED 27/10/2017 GRID DATUM MG	6A94
OB No	HEIGHT DATUM AHI	D BEARING	DATE COMPLE	eted 27/10/2017 Driller Geo	odrill
(E) H R.L. (M) HIGHT	MATERIAL DESCRIPT			ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	FILL			0.00m-1.00m: Non destructive drilling.	
3.14					
	Gravelly CLAY with Sand (Brown, moist, soft. Medi plasticity. Fine to mediun gravel, angular. Fine to co	um n grained (C		-	1, 2, 3 N=5 SPT
2.14	GRAVEL (Fill) Brown and Black, wet, lo medium grained, angular	0000			-
- 3	в				4, 3, 4 N=7 SPT
- 4	С	(G	P)		17, 2, 2 N=4 SPT
- 5 - 6 <u>-1.86</u>		<u>, </u>		LL=599	
-2.26	D CLAY with Sand (Alluvium Dark grey, wet, soft. High SAND (Alluvium) Dark grey, wet, loose. Fin	plasticity.		<75	LS= 16% iµm= 79% U50
- 7	clayey SAND (Residual)	st, very	P)	3	- 0/110mm SPT
- 8	dense. Fine to coarse gra angular. Medium to high clay.		c)		hb -
- 9	(52.5) TUFF (Rif) MW: Pale brown-grey, fir medium clasts in a fine g matrix, massive, very hig -Js: 10°-20° (6/m) Pl/Ro, 0	rained h strength.	c	(s(50)= UCS=6 (s(50)= (s(50)= (s(50)= (s(50)= (s(50)= (s(50)= (s(50)= (s(50)=)	4:50 MPa D (8.80m) 4:30 MPa A (8.81m) 1:50 MPa (8.95m) v=0.17 D (9.08m) 7.70 MPa A (9.09m) 4:40 MPa D (9.20m) 3:30 MPa A (9.21m) 0:17 PD D (9.21m)
-5.86	Borehole completed at 2	10.00m			0.65 MPa D (9.69m) A (9.70m)
REMARK	KS: Rif - Brisbane Tuff			LOGGED BY	REVIEWED BY
				SB	S. Foley
		TMP GEOTECHNICA	AL BOREHOLE LOG - CREATED WITH HOLEBASE SI		,

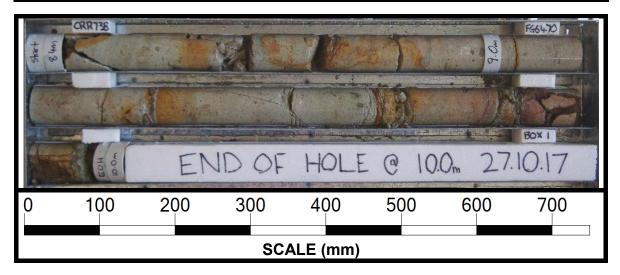
						_		FINAL 06/03/201	
			5 7 Mu	STAND	PIPE		BOREHOLE No	CRR738	
			Queensland INSTALLATION LOG				Sheet 1 of 1		
		×.	g Government	FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014			PIEZOMETER No CRR738		
PROJECT	г	С	ross River Rail CRR2017 - Additional Geotechnical I	nvestigation					
LOCATIO	N	Q	R land (Mayne Yard)				coordinates 503886.4	E; 6964918.2 N	
PROJECT	ΓNo	F	G6470 SURFACE RL 4.14m	plunge 90°	DATE STA	ARTED 27/10/2017	7 GRID DATUM	/IGA94	
IOB No			HEIGHT DATUM AHD	BEARING °	DATE COMPI	LETED 27/10/2017	7 DRILLER (Geodrill	
~					Stand	nine Constru			
	E H R.L.		MATERIAL DESCRIPTION			uction Details			
DEP.	(m)	LITHOLOGY		Depth (m) /RL (AHD)	50mm PVC Class No. 18 Stick Up = 0.00m		Backfill Details		
-	<u>3.14</u> 2.14		FILL Gravelly CLAY with Sand(Fill) Brown, moist, soft. Medium plasticity. Fine to medium grained gravel, angular. Fine to coarse grained sand, angular. GRAVEL(Fill) Brown and Black, wet, loose. Fine to medium grained, angular.	3.00m / 1.14 AHD			Grout: Cement / E	Bentonite mix	
- 3				3.00m / 1.14 AHD					
_							Bentonite	Seal	
				4.00m / 0.14 AHD			Top of Slotte		
- 5	1.00								
- 6	-1.86		CLAY with Sand(Alluvium)		-				
. -	-2.26	<u> </u>	Dark grey, wet, soft. High plasticity. SAND(Alluvium)						
			Dark grey, wet, loose. Fine to coarse grained,						
- 7	-3.06		angular				Filter: Washed / C	Graded Sand	
- 8	-4.26	2011년 11년 11년 11년 11년 11년 11년 11년 11년 11년	Clayey SAND(Residual) Pale grey and white, moist, very dense. Fine to coarse grained, angular. Medium to high plasticity clay.						
. 9		9.00	TUFF Pale brown-grey, fine to medium clasts in a fine grained matrix, massive, very high strength. -Js: 10°-20° (6/m) PI/Ro, OP, Fe St.						
	-5.86		Borehole completed at 10.00m	10.00m / -5.86 AHD		HERE E			
								1	
REI	MAR	KS:	Rif - Brisbane Tuff				LOGGED BY	REVIEWED BY	

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CORE PHOTO LOG DEPARTMENT OF TRANSPORT AND MAIN ROADS GEOTECHNICAL SECTION



Project Name	Project Name Cross River Rail CRR2017 – Geotechnical Investigation						
Project No.	FG6470	Date	27/10/2017				
Borehole No.	CRR738	Reference No.	H12964				
Location	QR land (Mayne Yard)	Start Depth (m)	8.40				
Submitted By	M. de Gee	Finish Depth (m)	10.00				



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 Rive	r Rail			Project No. FG6470			
Site ID / Borehole No.		CRR738				Surface RL 13.85			
Geologist		S.B.				Date	27/10/2017		
						Page	1	of	1
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		ТІ	Ct ¹	AZ	
8.47	J	60	Un	Ro	IV	OP	Cn		Int
8.47	J	60	Un	Ro	IV	OP	Cn		Int
8.53	J	0	Un	Ro	IV	OP	Cn		
8.47-8.69	J	80	Un	Ro	IV	OP	Cn		Half int
8.61	J	0	PI	Ro	VII	OP	Cn		Half int
8.65-8.69								HFZ	
8.77-8.79	J	30	Un	Ro	IV	OP	Cn		
8.89	J	15	Un	Ro	IV	OP	Cn		
9.05	J	0	Un	Ro	IV	OP	St		
9.23	J	15	Un	Ro	IV	OP	Cn		
9.30	J	0	Un			CD	Ct		Clay (5mm)
9.38-9.50	J	60	Un	Ro	IV	CD/OP	Cn		
9.48	J	0	Un	Ro	IV	OP	Cn		Int
9.59-9.64									Clayey sand
9.76	J	30	Un	Ro	IV	OP	Ct	CZ	
9.79	J	30	Un	Ro	IV	OP	Ct	CZ	
9.82	J	30	Stp	Ro	Ι	OP	St		
9.76-9.92	J	70	PI	Ro	VII	OP	St		
9.89	J	30	Un	Ro	IV	OP	Cn		
9.92-10.00									Clayey sand

Note: 1. Describe zones and coatings in terms of composition and thickness (mm) *F:GEOT 533/9 – 2014*