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# GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **CRR912**

Sheet 1 of 3

REFERENCE No **H13109**

PROJECT	Cross River Rail (CRR) Project - Additional Geotechnical Investigation
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LOCATION	Gus Street
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COORDINATES 501337.0 E; 6954642.6 N

PROJECT No	FG6470
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SURFACE RL 8.44m

PLUNGE 90°

DATE STARTED 27/06/2018

GRID DATUM MGA94

JOB No

HEIGHT DATUM AHD

BEARING °

DATE COMPLETED 28/06/2018

DRILLER Geodrill

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
					Gravelly Sandy CLAY (Fill) Dark grey, dark brown mottled black, moist, firm to stiff. Low plasticity. Fine to coarse grained sand. Fine to medium, sub-angular to subrounded gravel. Rootlets.		(CL)				
1	7.94			A	CLAY (Alluvium) Pale brown, pale red mottled pale grey, moist, firm to stiff. High plasticity.		(CH)			1.50m-1.95m: CU Triaxial Test	DIST
2	6.44			B	at 1.5m: pale grey and pale red mottled orange, stiff.					MC=31.6% DD= 1.48 t/m3 WD= 1.95 t/m3	U50
3				C	Sandy CLAY (Alluvium) Pale grey mottle pale red and orange, moist, stiff. Medium plasticity. Fine grained sand.					4, 5, 9 N=14	SPT
4				D	at 3.5m: Very stiff. Trace rootlets and wood.					4, 7, 12 N=19	SPT
5				E	at 4.5m: Pale grey and mottled pale orange		(CH)			4, 9, 13 N=22 LL=47% Pl= 26% MC=27.4% LS= 12% <75µm= 62%	SPT
6				F	at 5.5m: Pale brown, hard.					16, 23, 30/145mm	SPT
7				G	at 5.9m: Pale grey. Trace of fine to medium grained gravel, sub-rounded.						
8	0.84			H	at 7m: Becoming Clayey Gravelly SAND. Medium to coarse gravel, sub-rounded to rounded.					14, 11, 15 N=26 LL=34% Pl= 14% MC=22.6% LS= 11% <75µm= 29%	SPT
9	-1.06				SAND (Alluvium) Grey and brown, wet, very dense, medium to coarse grained. Trace fine to coarse, sub-rounded to sub-angular gravel. Trace fines.		(SP)			16, 30/140mm	SPT
	-1.56				Clayey Sandy GRAVEL (Alluvium)		(GC)				

Continued on next sheet

REMARKS: Rip - Aspley Formation. Standpipe piezometer installed.

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## GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **CRR912**

Sheet 2 of 3

REFERENCE No **H13109**

PROJECT **Cross River Rail (CRR) Project - Additional Geotechnical Investigation**

LOCATION **Gus Street**

COORDINATES **501337.0 E; 6954642.6 N**

PROJECT No **FG6470**

SURFACE RL **8.44m**

PLUNGE **90°**

DATE STARTED **27/06/2018**

GRID DATUM **MGA94**

JOB No

HEIGHT DATUM **AHD**

BEARING °

DATE COMPLETED **28/06/2018**

DRILLER **Geodrill**

DEPTH (m)	R.L. (m)	AUGER Casing Washing Cone Drilling	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
				I	Clayey Sandy GRAVEL (Alluvium) Cont'd. Grey, brown, pale red, pale orange, and dark grey, wet, very dense. Medium grained gravel, rounded to sub-rounded. Medium to coarse grained sand. High plasticity clay.					23, 30/140mm	SPT
11				J		(GC)				30/140mm	SPT
12											
13				K	at 13.0m: Pale brown, moist. With medium to coarse gravel. Trace cobbles, sub-rounded.					20, 30, 30/120mm <75µm= 14%	SPT
14											
15	-6.06			L	Gravelly Sandy CLAY (Alluvium) Pale brown, moist hard. Fine to coarse, sub-rounded gravel. Fine to coarse sand.	(CL)				21, 9, 27 N=36	SPT
16	-7.70			M						15, 30/80mm	SPT
17	-8.70		(22)		SILTSTONE (Rip) XW: Recovered as pale grey, moist, hard CLAY with some sub-angular gravel. Interlaminated with coal.	XW				30/90mm	SPT
18	-9.30		100 (45)		SILTSTONE (Rip) HW: Pale grey to dark grey, fine grained, thinly to medium bedded, low to medium strength.	HW				Is(50)=0.20 MPa Is(50)=0.36 MPa	D (17.47m) A (17.48m)
19	-11.08				SILTSTONE (Rip) XW: Recovered as pale grey, moist, hard, medium plasticity Clay with sub-angular gravel.	XW				17.75m-18.82m: BZ, XW Cly 18.87m-19.01m: XW Cl	
-11.56					SILTSTONE (Rip) HW:	HW				19.70m-19.75m: HW Band 19.81m-19.85m: HW Band 19.91m-19.94m: HW Band	Is(50)=0.06 MPa Is(50)=0.37 MPa D (19.77m) A (19.78m)

Continued on next sheet


REMARKS: Rip - Aspley Formation. Standpipe piezometer installed.

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 <div>Queensland Government</div>		<div>GEOTECHNICAL BOREHOLE LOG</div> <div>FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014</div>		<div>BOREHOLE No <b>CRR912</b></div> <div>Sheet 3 of 3</div> <div>REFERENCE No <b>H13109</b></div>							
PROJECT <b>Cross River Rail (CRR) Project - Additional Geotechnical Investigation</b>											
LOCATION <b>Gus Street</b>		COORDINATES <b>501337.0 E; 6954642.6 N</b>									
PROJECT No <b>FG6470</b>	SURFACE RL <b>8.44m</b>	PLUNGE <b>90°</b>	DATE STARTED <b>27/06/2018</b>	GRID DATUM <b>MGA94</b>							
JOB No	HEIGHT DATUM <b>AHD</b>	BEARING <b>°</b>	DATE COMPLETED <b>28/06/2018</b>	DRILLER <b>Geodrill</b>							
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 VH H M J VL EL	EC VC C M W VW EW		
-11.64					SILTSTONE (Rip)	HW	HW				
-12.04			100 (87)		HW: Cont'd. Grey, fine grained, thinly bedded, very low to medium strength.	MW	MW	M	C	Is(50)=0.41 MPa Is(50)=2.80 MPa	D (20.15m) A (20.17m)
21					SILTSTONE (Rip)	SW	SW	MH	M	UCS=28.10 MPa E=1.69 GPa v= 0.055	(20.62m)
			100 (5)		MW: Grey, to dark grey, fine grained, thinly bedded, medium strength.	SW	SW	MH	M	Is(50)=0.26 MPa Is(50)=0.73 MPa	D (21.20m) A (21.22m)
-13.40					SILTSTONE (Rip)	MW	MW	MH	C		
22					SW: Grey to dark grey, fine grained, thinly to medium bedded, medium to high strength.	MW	MW	MH	M		
					-BP: 0-15, (4-8/m), Pl-Un/Ro-Sm, TI-OP, Cn, trace Cly Vr	MW	MW	MH	C		
					SILTSTONE (Rip)	HW	HW	MH	C		
23					MW: Grey and dark grey, fine grained, thinly to medium bedded, medium to high strength.	SW	SW	MH	C		
			100 (31)		Interbedded carbonaceous layers throughout.	HW	HW	MH	C	Is(50)=0.22 MPa Is(50)=1.90 MPa	D (23.07m) A (23.08m)
					-BP: 0-15, (2-5/m), Pl-Un/Sm, OP, Ct, Cn or Coal	MW	MW	MH	C		
24						HW	HW	MH	C		
						SW	SW	MH	C	Is(50)=0.16 MPa Is(50)=1.60 MPa	D (24.20m) A (24.21m)
25						MW	MW	MH	C		
						HW	HW	MH	C	UCS=14.10 MPa E=1.67 GPa v= 0.035	(24.90m)
-17.23			100			MW	MW	MH	C		
26					Borehole completed at 25.67m						
27											
28											
29											
REMARKS: Rip - Aspley Formation. Standpipe piezometer installed.										LOGGED BY	REVIEWED BY
										ND	S. Foley

# 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.*

<b>Project Name</b>		<b>Cross River Rail - Stage 2</b>				<b>Project No</b>		<b>FG6470</b>	
<b>Site ID / Borehole No.</b>		<b>CRR912</b>				<b>Surface RL</b>		<b>8.45</b>	
<b>Geologist</b>		<b>N.DEWAR</b>				<b>Date</b>		<b>29/06/2018</b>	
						<b>Page</b>	<b>1</b>	<b>of</b>	<b>4</b>
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 <sup>1</sup>	Zones <sup>1</sup> SZ / CZ / HFZ / AZ	Other
17.16	BP	10°	Un	Sm		OP	CN		
17.19	BP	0°	PI	Sm		OP	CN		
17.22	BP	10°	PI	Sm		OP	CN		
17.24	BP	0°	PI	Sm		OP	CN		
17.26	BP	0°	Un	Sm		OP	CN		
17.27	BP	0°	Un	Sm		OP	CN		
17.28	BP	0°	Un	Sm		OP	CN		
17.31	BP	5°	Un	Sm		OP	CN		
17.32	BP	5°	Un	Sm		DIS	CN		
17.37-17.4								FZ(DRILL?)	CLAY
17.40	Sm	10°	Un	Sm		OP	Ct		COAL(15mm)
17.41	BP	0-15°	Un	Sm		CD	Vr		COAL(1mm)
17.43	BP	0°	PI			CD			
17.46	BP	10°	Un	Sm		OP	CN		
17.47	BP	0°	PI	Sm		CD	Vr		COAL(1mm)
17.56	BP	0°	Un	Ro		OP/DIS	CN		
17.59	BP	0°	Un	Sm		OP/DIS	Ct		COAL(2mm)
17.61-17.67	J	80-90°	Un	Sm		TI/CD	CN		
17.66	J	70°	Un	Sm		TI/CD	CN		
17.67	BP	5°	PI	Sm		TI/CD	Ct/Vr		COAL(2mm)
17.72	BP	10°	Un	Sm		OP	Vr		CLAY
17.77	BP	5°	PI	Sm		OP	Ct		CLAY
17.77-18.82	SILTSTONE	HIGHLY	FRACTURED					HFZ	
18.82	BP	0	PI	Sm		OP	Vr		CLAY
18.87-19.01	SILTSTONE	HIGHLY	FRACTURED					HFZ	
19.06	BP	5°	Un	Sm		OP	CN		
19.07	BP	5°	Un	Sm		OP	Vr		
19.07-19.66	SILTSTONE	HIGHLY	FRACTURED					HFZ	
19.70	BP	0°	PI	Sm		OP	Vr		CLAY
19.7-19.75								HFZ	
19.75	BP	0°	PI	Sm		OP	CN		

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 - Stage 2				Project No.	FG6470		
Site ID / Borehole No.		CRR912				Surface RL	8.45		
Geologist		N.DEWAR				Date	29/06/2018		
						Page	2	of	4
19.76	J	80°	Un	Sm		DIS	CN		
19.81	BP	5°	Un	Sm		OP	CN		
19.81-19.85								HFZ	
19.85	BP	0°	Un	Sm		OP	Vr		CLAY
19.91	BP	10°	Stp	Sm		OP	Vr		CLAY
19.92	BP	0°	Un	Sm		OP	Vr		CLAY
19.94	BP	5°	PI	Sm		OP	Vr		CLAY
19.98	BP	0°	PI	Sm		OP	CN		
20.01	BP	0°	PI	Sm		OP	CN		
20.10	BP	0°	PI	SM		OP	CN		
20.24	BP	0°	Un			CD			
20.32-20.42	J	80-90°	Un	Sm		OP	CN		
20.36	BP	0°	Un	Sm		OP	CN		
20.41	BP	10°	Stp	Sm		OP	CN		
20.43	BP	0°	PI	Sm		OP	CN		
20.75-20.83	J	55°	PI	Sm		OP	CN		
20.77	BP	0°	Un	Sm		OP	CN		
20.81	BP	0°	PI	Sm		OP	CN		
20.83	BP	0°	PI	Sm		OP	CN		
20.85	SM/BP	0°	Un			CD	Vr		QZ?
21.02	BP	0°	Un	Sm		DIS	Ct		COAL(1mm)
21.26	BP	0°	Un	Sm		OP	CN		
21.52	BP	5°	Un	Sm		OP	CN		
21.53	BP	10°	Un	Sm		OP	CN		
21.53-21.55								HFZ	
21.55	BP	10°	Un	Sm		OP	CN		
21.57	BP	5°	Un	Sm		OP	CN		
21.60	BP	0°	PI	Sm		OP	CN		
21.69	BP	0°	PI	Sm		OP	CN		
21.85	BP	0°	Un	Sm		OP	CN		
21.88	BP	5°	PI	Sm		OP	CN		
21.88	BP	0°	PI	Sm		OP	Vr		COAL?
21.90	BP	0°	PI	Sm		OP	Vr		COAL?
21.97	BP	0°	Un	Ro		OP	Ct		COAL(5mm)
22.21	BP	10°	PI	Sm		OP	Ct		COAL(1mm)
22.23	BP/SM	10°	PI	Sm		OP	Ct		COAL(5mm)
22.36	BP/SM	10°	Un	Sm		OP	Ct		COAL(4mm)

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 - Stage 2				Project No.	FG6470		
Site ID / Borehole No.		CRR912				Surface RL	8.45		
Geologist		N.DEWAR				Date	29/06/2018		
						Page	3	of	4
22.37	BP/SM	10°	PI	Sm		OP	Ct		COAL(2mm)
22.52	BP/SM	5°	Un	Sm		OP	Ct		COAL(2mm)
22.52-22.54								HFZ	
22.54	BP	10°	PI	Sm		OP	CN		
22.58	BP	10°	Un	Sm		OP	Vr		CLAY&COAL
22.60	BP	5°	PI	Sm		OP	Ct		COAL(9mm)
22.62	BP	0°	Un	Sm		OP	CN		
22.62-22.65								HFZ	
22.65	BP	0°	PI	Sm		OP	CN		
22.68	BP	10°	Un	Sm		OP	Ct		CLAY
22.69	J	20°	Stp	Sm		OP	CN		
22.69-22.77								HFZ	
22.77	BP	0°	Un	Sm		OP	Vr		CLAY
22.91	BP	0°	Un	Sm		OP	Vr		CLAY
22.91-22.92								HFZ	
22.98	BP/SM	0°	Un	Sm		OP	Ct	COAL(30mm)	
23.02	BP/SM	10°	PI	Sm		CD	Ct		COAL(3mm)
23.05	BP	0-10°	Un	Sm		OP	Ct		COAL(3mm)
23.20-23.24	LOCALIZED	DESICCATION	UPON	DRYING					
23.37	J	0°	Un	Sm		OP	CN		
23.44	DRILL	INDUCED	FRACTURE						
23.44-23.5								HFZ	
23.51	BP	80°	PI	Sm		OP	CN		
23.55	BP	5°	Un	Sm		OP	CN		
23.59	BP	10°	PI	Sm		OP	CN		
23.59-23.66								HFZ(COAL)	
23.66	BP	5°	PI	Sm		OP	Vr		COAL
23.68	BP	10°	Stp	Sm		OP	CN		
23.68-23.71								HFZ	
23.71	J	40°	Un	Sm		OP	CN		
23.78	BP	0°	PI	Sm		OP	CN		
23.84	BP	10°	PI	Sm		OP	CN		
23.90	BP	0°	Stp	Sm		OP	Vr		CLAY
23.93	BP	0°	Un	Sm		OP	Vr		CLAY
23.93-23.97								HFZ(COAL)	
23.97	BP	156	PI	Sm		OP	Vr		COAL
23.99	J	10°	Stp	Sm		OP	CN/Vr	trace COAL	

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 - Stage 2				Project No.	FG6470		
Site ID / Borehole No.		CRR912				Surface RL	8.45		
Geologist		N.DEWAR				Date	29/06/2018		
						Page	4	of	4
24.00	J	80°	Stp	Sm		OP	CN		
24.03	BP	0°	PI	Sm		OP	CN		
24.05	BP/SM	0°	PI			OP	Ct		COAL(2mm)
24.11	BP	0-5°	PI	Sm		OP	CN		
24.14	BP	10°	Un	Sm		OP	CN		
24.26	BP	10°	Un	Sm		OP	CN		
24.33-24.36	CLAY	XW	ROCK						
24.34	BP	0°	PI	Sm		OP	Ct	CLAY(28mm)	
24.41	BP	0°	Un	Sm		CD	CN		
24.43	BP	5°	Un	Sm			Ct	COAL/CLAY(5mm)	
24.55	BP	5°	Un	Sm		OP	CN		
24.58	BP	5°	PI	Sm		OP	Ct		COAL(2mm)
24.60	BP	0°	Un	-		CD/TI	CN		
24.71	BP	0°	Un	Sm		OP	Vr		CLAY
25-25.03		10°						HFZ(COAL)	COAL
25.04	BP	0°	PI	Sm		OP	CN		
25.05	BP	85°	Un	Sm		TI	CN		
25.08-25.13	J	60°	Un	Sm		OP	CN		
25.08-25.16	XW	ROCK	CLAY	SEAM					
25.16	BP	0°	PI	Sm		OP	CN		
25.17	J	90°	Un	Sm		OP	CN		
25.18	BP	0°	PI	Sm		OP	CN		
25.18-22.25	XW	ROCK	CLAY	SEAM					
25.25-25.52	J	80-90°	Un	Sm		OP	CN		
25.28	BP	0°	Stp	Sm		OP	Ct		COAL(3mm)
25.31	J	40°	Stp	Sm		OP	CN		
25.39	J	20°	Un	Sm		OP	CN		
25.39-25.45		HFZ	COAL	BAMP				HFZ	COAL
25.52	BP	0°	PI	Sm		OP	CN/trace	Vr	COAL
25.52-25.6								FZ	
25.60	BP	10°	PI	SM		OP	CN		

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

F:GEOT 533/9 – 2014





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## STANDPIPE PIEZOMETER INSTALLATION LOG

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

BOREHOLE No **CRR912**

Sheet 1 of 3

PIEZOMETER No **CRR912**

PROJECT	Cross River Rail (CRR) Project - Additional Geotechnical Investigation				
LOCATION	Gus Street			COORDINATES 501337.0 E; 6954642.6 N	
PROJECT No	FG6470	SURFACE RL	8.44m	PLUNGE	90°
				DATE STARTED	27/06/2018
				GRID DATUM	MGA94
JOB No		HEIGHT DATUM	AHD	BEARING	°
				DATE COMPLETED	28/06/2018
				DRILLER	Geodrill

DEPTH (m)	R.L. (m)	LITHOLOGY	MATERIAL DESCRIPTION	Standpipe Piezometer Construction Details		
				Depth (m) /RL (AHD)	50mm PVC Class No. 18 Stick Up = 0.00m	Backfill Details
1	7.94		Gravelly Sandy CLAY (Fill) Dark grey, dark brown mottled black, moist, firm to stiff. Low plasticity. Fine to coarse grained sand. Fine to medium, sub-angular to subrounded gravel. Rootlets.			
2	6.44		CLAY (Alluvium) Pale brown, pale red mottled pale grey, moist, firm to stiff. High plasticity. at 1.5m: pale grey and pale red mottled orange, stiff.	2.00m / 6.44 AHD		Grout: Cement / Bentonite mix
3			Sandy CLAY (Alluvium) Pale grey mottle pale red and orange, moist, stiff. Medium plasticity. Fine grained sand.			Bentonite plug
4			at 3.5m: Very stiff. Trace rootlets and wood.	3.00m / 5.44 AHD		
5			at 4.5m: Pale grey and mottled pale orange			
6			at 5.5m: Pale brown, hard.			
7			at 5.9m: Pale grey. Trace of fine to medium grained gravel, sub-rounded.			
8	0.84		at 7m: Becoming Clayey Gravelly SAND. Medium to coarse gravel, sub-rounded to rounded.			
9			SAND (Alluvium) Grey and brown, wet, very dense, medium to coarse grained. Trace fine to coarse, sub-rounded to sub-angular gravel. Trace fines.			
	-1.06					
	-1.56		Clayey Sandy GRAVEL (Alluvium)			

Continued on next sheet

REMARKS: Rip - Aspley Formation. Standpipe piezometer installed.

LOGGED BY

REVIEWED BY

ND

S. Foley



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## STANDPIPE PIEZOMETER INSTALLATION LOG

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

BOREHOLE No **CRR912**

Sheet 2 of 3

PIEZOMETER No **CRR912**

PROJECT	Cross River Rail (CRR) Project - Additional Geotechnical Investigation				
LOCATION	Gus Street			COORDINATES 501337.0 E; 6954642.6 N	
PROJECT No	FG6470	SURFACE RL	8.44m	PLUNGE	90°
				DATE STARTED	27/06/2018
				GRID DATUM	MGA94
JOB No		HEIGHT DATUM	AHD	BEARING	°
				DATE COMPLETED	28/06/2018
				DRILLER	Geodrill

DEPTH (m)	R.L. (m)	LITHOLOGY	MATERIAL DESCRIPTION	Standpipe Piezometer Construction Details		
				Depth (m) / RL (AHD)	50mm PVC Class No. 18 Stick Up = 0.00m	Backfill Details
11			Clayey Sandy GRAVEL (Alluvium) Cont'd. Grey, brown, pale red, pale orange, and dark grey, wet, very dense. Medium grained gravel, rounded to sub-rounded. Medium to coarse grained sand. High plasticity clay.			
12						
13			at 13.0m: Pale brown, moist. With medium to coarse gravel. Trace cobbles, sub-rounded.			
14						
15	-6.06		Gravelly Sandy CLAY (Alluvium) Pale brown, moist hard. Fine to coarse, sub-rounded gravel. Fine to coarse sand.			Filter: Washed / Graded sand
16	-7.70					
17	-8.70		SILTSTONE (Rip) XW: Recovered as pale grey, moist, hard CLAY with some sub-angular gravel. Interlaminated with coal.			
18	-9.30		SILTSTONE (Rip) HW: Pale grey to dark grey, fine grained, thinly to medium bedded, low to medium strength.			
19	-11.08		SILTSTONE (Rip) XW: Recovered as pale grey, moist, hard, medium plasticity Clay with sub-angular gravel.			
20	-11.56		SILTSTONE (Rip) HW:			

Continued on next sheet

REMARKS: Rip - Aspley Formation. Standpipe piezometer installed.

LOGGED BY

REVIEWED BY

ND

S. Foley



Queensland  
Government

STANDPIPE PIEZOMETER  
INSTALLATION LOG

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

BOREHOLE No **CRR912**

Sheet 3 of 3

PIEZOMETER No **CRR912**

PROJECT	Cross River Rail (CRR) Project - Additional Geotechnical Investigation		
LOCATION	Gus Street	COORDINATES 501337.0 E; 6954642.6 N	
PROJECT No	FG6470	SURFACE RL 8.44m	PLUNGE 90°
			DATE STARTED 27/06/2018
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 28/06/2018
			DRILLER Geodrill

DEPTH (m)	R.L. (m)	LITHOLOGY	MATERIAL DESCRIPTION	Standpipe Piezometer Construction Details		
				Depth (m) /RL (AHD)	50mm PVC Class No. 18 Stick Up = 0.00m	Backfill Details
-11.64			SILTSTONE (Rip)			
-12.04			HW: Cont'd. Grey, fine grained, thinly bedded, very low to medium strength.			
21			SILTSTONE (Rip)			
			MW: Grey, to dark grey, fine grained, thinly bedded, medium strength.			
			SILTSTONE (Rip)			
			SW: Grey to dark grey, fine grained, thinly to medium bedded, medium to high strength.			
-13.40			-BP: 0-15, (4-8/m), Pl-Un/Ro-Sm, TI-OP, Cn, trace Cly Vr			
22			SILTSTONE (Rip)			
			MW: Grey and dark grey, fine grained, thinly to medium bedded, medium to high strength.	22.67m / -14.22 AHD		Top of slotted pipe
			Interbedded carbonaceous layers throughout.			
23			-BP: 0-15, (2-5/m), Pl-Un/Sm, OP, Ct, Cn or Coal			
24						
25						
-17.23				25.67m / -17.23 AHD		
26			Borehole completed at 25.67m			
27						
28						
29						

REMARKS: Rip - Aspley Formation. Standpipe piezometer installed.	LOGGED BY	REVIEWED BY
	ND	S. Foley



**CORE PHOTO LOG**  
DEPARTMENT OF TRANSPORT AND MAIN ROADS  
GEOTECHNICAL SECTION

Project Name	Cross River Rail CRR 2018 – Geotechnical Investigation		
Project No.	FG6470	Date	27/06/2018
Borehole No.	CRR9012	Reference No.	H13109
Location	Gus Street	Start Depth (m)	17.00
Submitted By	J. Armstrong	Finish Depth (m)	25.67

