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BOREHOLE LOG

AECOM Australia Pty Ltd CLIENT: PROJECT: Cross River Rail - Phase 1 LOCATION: Tamar Street, Annerley

SURFACE LEVEL: 21.5 m AHD **EASTING:** 502858 **NORTHING:** 6957694 DIP/AZIMUTH: -90°/--

BORE No: CRR107 PROJECT No: 74321.00 **DATE:** 21 April 2010 SHEET 1 OF 3

	Depth	Description	Degree of Weathering	بان ساز	Rock Strength	Fracture Spacing	Discontinuities		mplir	ng & In Situ Testing		
집	(m)	of Strata	EW HW MW SW FR	Grap	Strength Negitime Neg	(m)	B - Bedding J - Joint S - Shear D - Drill Break	Type	Core tec. %	RQD %	Test Results &	
-	0.1	FILLING - loose, brown silty sand filling, sand fraction is fine to coarse grained, moist FILLING - loose to medium dense,		XX					EE,		Comments	
21	. 0.5	grey-brown sandy gravel filling, fine to coarse grained sand and gravel, with some silt, moist SILTY CLAY - very stiff to hard,	Water Assets bridge									
	. 0.9	grey and orange brown mottled, medium to high plasticity silty clay, with trace fine to medium grained	40400									
	-1 -	SANDSTONE - very low strength, highly weathered orange-brown medium to coarse grained sandstone										
20												
-	•											
	-2 -		1-0.00 10.		desiration of the control of the con	Anna Amma (1977)	(See attached sheet for abbreviations)					
19	2.5	- 200mm low strength, slightly weathered, fine to medium sandstone interbed, bedding at 20°		5	With the state of		2.5m: frg to 2.65m, di					
	- - -3	CONGLOMERATE - extremely low to very low strength, moderately to slightly weathered, slightly fractured, orange-brown and grey medium grained conglomerate, subhorizontal clast orientation	Active desired states of the control	000		The state of the s	2.85m: B, sh, un, ti					
		becoming moderately weathered, orange brown and grey banded, fine to coarse grained sandstone interbeds to 60mm at 60-100mm spacing to 4.2m					3.14m: J: 30°, uп, го	С	100	21		
18		becoming slightly weathered, grey and orange-brown banded bedding at 15°)0()0(
1	- 4 	hadding subbart		30				*		THE CONTRACT OF THE CONTRACT O		
	- 4.2	- bedding subhorizontal CORE LOSS		7			4.2m: CORE LOSS: 1000mm	***************************************	<u> </u>	<u> </u>		
. 44	-							С	66	8		
	-			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								

RIG: MD300 **DRILLER:** Taberner LOGGED: MAH CASING: HW to 2.5m

TYPE OF BORING: Auger 0.00-2.50m, NMLC core 2.50-10.00m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

Auger sample
Disturbed sample
Bulk sample
Tube sample (x mm dia.)
Water sample
Core drilling

| IESTING LEGEND |
pp Pocket penetrometer (kPa) |
piD Photo ionisation detector |
Standard penetration test |
PL Point load strength Is(50) MPa |
V Shear Vane (kPa) |
Water seep |
Water level





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BORE No: CRR107 PROJECT No: 74321.00 **DATE:** 21 April 2010 SHEET 2 OF 3

\Box			Domes of 1	Pook	1 1 _						
	Depth	Description	Weathering	Rock Strength	Fracture Spacing	Discontinuities	Sa	mplir	ng & l	g & In Situ Testing	
쮼	(m)	of	Degree of Weathering	Graphic Graphic Craphic Craphi	(m)	8 - Bedding J - Joint	Type	ore c. %	RaD %	Test Results &	
			WH W SE	Wedge Cara		S - Shear D - Drill Break	Ε.	ပည္	ж.	Comments	
-	5.2	CORE LOSS (continued) CONGLOMERATE- sporadic				5.2m: frg to 5.28, di					
16		sandstone interbeds to 50mm at 100-300mm spacings to 6.0m becoming coarse grained conglomerate becoming fine to medium grained conglomerate		000000000000000000000000000000000000000		5.4m: frg to 5.54m, di			over the second		
	-6 6.05	SANDSTONE - extremely low to very low strength, slightly weathered, slightly fractured, grey fine to medium grained sandstone, bedding at 10°				6.07m: J, 20°, un, sm 6.15m: B: 10°, pl, sm 6.24m: frg to 6.33m, di 6.25m: B: 10°, pl, sm	С	66	8		
19	-7	\$\frac{1}{2} \text{80mm extremely low strength,} \\ \text{fine grained conglomerate interbed} \\ \text{becoming fresh, grey-brown fine} \\ \text{grained sandstone, bedding at} \\ \text{subhorizontal to 10°, siltstone} \\ \text{laminae to 5mm at 10-50mm} \\ \text{spacings to 7.00m, sporadic} \\ \text{laminae of coal and lignite to 7.20m} \end{array}				6.56m: B: sh, pl, sm	*********				
14 ,	7.2	CORE LOSS				7.2m: CORE LOSS: 600mm	To Available Ava				
	7.8 -8 -8 8.16	gravel, potential fall-in from conglomerate unit at 3.00-6.00m -40mm extremely low stelland.	i i i i i <u>2</u>	0		7.8m: frg to 8.16m, di 8.16m: B: 10°, un, sm 8.24m: B, 10°, pf, sm	C	66	0		
13		strength, moderately weathered, slightly fractured, grey and orange-brown mottled siltstone, bedding subhorizontal to 10°			1 4 2 2 2 2 2 2 2 2 2	8.35m: J: 10°, pl, ro, lim 8.59m: B, sh, pl, ro 8.64m: J: 60°, pl, h, lim 8.7m: B: 10°, pl, ro, lim	-Addition of Party	about Military s	Address		
21	-9 9.C - - - - 9.5	CORE LOSS				9m: CORE LOSS: 500mm					
-		to medium to coarse at 9.70m, potential fall-in from conglomerate unit at 3.00-6.00m					C	50	0	Too make the state of the state	
Ш	9.95					.l		1	<u> </u>	<u></u>	

RIG: MD300 **DRILLER:** Taberner LOGGED: MAH CASING: HW to 2.5m

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SAMPLING & IN SITU TESTING LEGEND
pp Pocket penetrometer (kPa)
Photo ionisation detector
S Standard penetration test
PL Point load strength 1s(50) MPa
V Shear Vane (kPa)
D Water seep Water level Auger sample
Disturbed sample
Bulk sample
Tube sample (x mm dia.)
Water sample
Core drilling





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BORE No: CRR107 PROJECT No: 74321.00 **DATE: 21 April 2010** SHEET 3 OF 3

	Denth	Description of Strata	Degree of Weathering			.ë	Rock Strength Ion Nedich Ingh Ingh Koly High K			7.	Fracture Spacing		Discor	ntinuities				n Situ Testing	
R	Depth (m)			>		Grap					Vate	(m)		8 - Bedding S - Shear	J - Joint D - Drill Break	Type	Sore %	RQD %	Test Results &
H	10.0	SILTSTONE - extremely low	ž ž	<u>₩</u> %	<u>ε</u> ε	Ľ	ম্ভ	613	활멸.	ž ž	- 10	11	10.5	0 - Cileai	D-Omi Dieav	-	0 %		Comments
-		strength, highly to moderately	1 .					ij	ij		- li	ij							
ŀ		weathered, fractured, grey siltstone Bore discontinued at 10.0m		1 L				l	1		- l¦		11						
ħ	'	Doro discontinuos de Toloni	[ĺ	Ì			ļį	İ							
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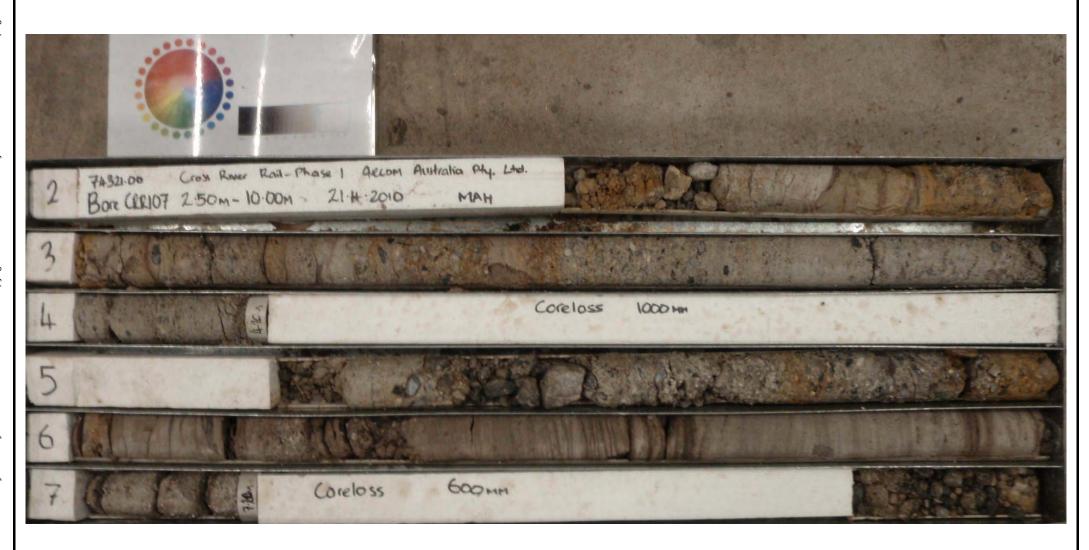
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Douglas Partners

Geotechnics - Environment - Groundwater

