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

SURFACE LEVEL: 22 m AHD **EASTING:** 502833 **NORTHING:** 6957921 DIP/AZIMUTH: -90°/--

**BORE No: CRR105 PROJECT No: 74321.00 DATE: 23 April 2010** SHEET 1 OF 4

		Description	Degree of Weathering :≅	Rock Strength	Fracture	Fracture Discontinuities Spacing			Sampling & In Situ Testing				
꿉	Depth (m)	of Strata	Weathering Graphic Conditions & ₹ ₹ % & Conditions on the conditions of the conditi	Walter In Inches	(m)	B - Bedding J - Joint S - Shear D - Drill Break	Туре	Core Rec. %	g.%	Test Results &			
8		ASPHALTIC CONCRETE	₩¥₩8 & # # O	EX Very	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	J-Great D-Dilli Dreak	_	28	EL	Comments			
	· 0.1	FILLING - moderately compacted grey sandy gravel filling, medium to						- Federal American	* A AUGUST CONTRACTOR TO THE TOTAL CONTRACTOR TO THE T				
	-1 - . 1,;	SANDY CLAY - hard, orange-brown, low to medium					s			9,15,15 N = 30			
	1.5	plasticity, sandy clay, fine to medium sand fraction, with some silt (residual sandstone)  SANDSTONE - extremely low to very low strength, highly weathered, orange-brown fine grained sandstone, with sporadic							AAAAAAAAA T				
24	-2 2,1 - -	TUFF - extremely low to very low strength, light grey tuff, highly altered, slightly reworked					S			11, 30/140mm			
19	-3	- becoming extremely low strength, highly weathered						and the same of th					
-	- -						s			20,25,24 N = 49			
-	-4 - - 4.	3					s	-		28, 30/125mm			
	4.	TUFF - extremely low strength, highly weathered, fractured, grey and purple-grey mottled tuff, highly altered				4.58m: J: sh, un, ro, lim 4.64m: J: 60°, pl, sm, cc 4.7m: defects generally over printed by pervasive weathering and alteration	С	100	0				

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

TYPE OF BORING: Auger 0.00-4.30m, NMLC core 4.30-19.30m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS:

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

SAMPLING & IN SITU TESTING LEGEND
pp Pocket penetrometer (kPa)
pp Photo ionisation detector
S Standard penetration test
PP Point load strength is(50) MPa
V Shear Vane (kPa)
D Water seep Water seep





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**BORE No: CRR105 PROJECT No:** 74321.00 **DATE: 23 April 2010** SHEET 2 OF 4

П		Description	Degree of Weathering	Neathering ≅   Strength   =			Discontinuities	Sa	mpli	1g & l	n Situ Testing
귒	Depth (m)	OI OI	Weathering	E B	Ex How Madelun Low Madelun Low Madelun Low Madelun Low Madelun Low Mater Water 0.01	Spacing (m)	B - Bedding J - Joint	Type	s %	RQD %	Test Results &
		Strata	WH WE SE	ဖ	Med Kery Cery Cery Cery Cery Cery Cery Cery C	0.05 0.10 1.00	S - Shear D - Drill Break	Ļ	ပြည်	χ°,	Comments
4	5.0			\ \				¢	100	0	
16	5.2 - - - - -	SILTSTONE - extremely low strength, highly weathered, slightly fractured, grey and dark grey banded siltstone, sub-horizontal bedding, sporadic carbonaceous bands  100mm very low strength band, bedding at 10°					5.2m: B: sh, pl, sm, cc	c	100	39	
15	- 6. - - - -7	TUFF - very low strength, moderately weathered, slightly fractured, grey and red-brown mottled tuff, highly altered and slightly reworked							100	<b>39</b>	
14	7.	SILTSTONE - extremely low strength, moderately weathered, slightly fractured, grey and orange-brown siltstone, bedding at 10° becoming highly to moderately weathered = sporadic clay bands to 50mm thickness	The same of the sa	>   .   .   .   .   .			7.8m: J: 35°, pl, sm, cf 8mm	- Living and the state of the s	- Community	The second secon	
13	9	becoming fractured, sporadic bands of very low strength to medium strength fine to medium grained sandstone					8.71m: B: 10°, pl, sm, cf 30mm 8.77m: B: 10°, pl, sm, cf 50mm 9.03m: J: 30°, pl, sm, cc	C	100	45	
	- coloniant 1	9.6  SANDSTONE - extremely low to very low strength, highly weathered, fractured, orange-brown and grey banded fine to medium grained sandstone,					9.5m; J: 30°, pl, sm, cc 9.66m; J: sv, un, sm, cc, frg, to 10.00m	С	100	) 8	

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

TYPE OF BORING: Auger 0.00-4.30m, NMLC core 4.30-19.30m WATER OBSERVATIONS: No free groundwater observed whilst augering REMARKS:

## **SAMPLING & IN SITU TESTING LEGEND**

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

Pocket penetrometer (kPa)
PD Photo ionisation detector
S Standard penetration test
PL Point load strength is(50) MPa
V Shear Vane (kPa)
D Water seep
Water level





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

SURFACE LEVEL: 22 m AHD EASTING: 502833 NORTHING: 6957921 DIP/AZIMUTH: -90°/--

BORE No: CRR105 PROJECT No: 74321.00 DATE: 23 April 2010 SHEET 3 OF 4

		Description	Degree of Weathering			F Str	Rock ength	_	Fracture	Discontinuities	Sampling & I			In Situ Testing	
묎	Depth (m)	of Co. 1			Srap Log	Very Low		Water	Spacing (m)	B - Bedding J - Joint S - Shear D - Drill Break	Type	Core Rec. %	0 0 8	Test Results &	
윤	10.0	Strata \bedding at 10°, sporadic siltstone	A A	<u>}</u> % & %	<u> </u>	파일		- 6	0.00	S - Shear D - Drill Break 9.97m: B: 10°, un, sm,	<u> </u>	0 %	<u>~</u>	Comments	
+		∖laminae ∫						1	i i <b>, j</b> i	cc 10.12m: J: 20°, un, sm					
		SANDSTONE - (as before) becoming medium strength, slightly weathered, slightly fractured				1				10.4m: J: 20°, pl, sm	MAAAAF EE E				
11	-11	- becoming moderately to slightly weathered - 60mm fine grained conglomerate interbed	***** **** —					WARE HIRE		10.92m: J: sv, pl, ti, lim	С	100	8		
	11.45	CONGLOMERATE - night strength,		           	(a)					11.39m; J: 40°, un, sm, n, cc					
	•	moderately weathered, slightly fractured, orange-brown medium to			<u> </u>					11.49m: J: 45°, un, sm	<u></u>				
	- - 12	coarse grained conglomerate becoming low strength, slightly weathered, grey and orange-brown banded fine to medium grained conglomerate, with sporadic bands			)%(					11.72m: J: 50°, un, sm, cc 11.85m: J: 20°, un, sm	-				
1 1 1	I I I I I I I I I I I I I I I I I I I	of very low strength to low strength conglomerate			000	**************************************	The state of the s	and a second sec				C. William S. P.	· LIMINARY.	PL(A) = 0.09MPa PL(D) = 0.13MPa	
- 6	- 13	- becoming medium to coarse grained conglomerate			300000		**************************************			12.88m: J: 10°, un, ro	С	100	100		
	- - :	- becoming fine to medium grained			200			******		13.4m: J: 30°, pl, sm					
	Assessment	conglomerate 80mm siltstone interbed			000					13.65m: B: 20°, pl, sm, cc				1	
8	- 14	- becoming medium strength fine to medium grained conglomerate, with 50-80mm fine to medium grained sandstone interbeds at 100-300mm spacings			200			The second secon		14.08m: J: 20°,un, ro	· LANGEWALL	swammar.		PL(A) = 0.39MPa PL(D) = 0.61MPa	
		- becoming medium strength			00000	<b>#</b>	### #### #### ##### ##### ##### #######			14.7m: J: 45°, un, ro, frg to 14.76m	С	100	93		

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

TYPE OF BORING: Auger 0.00-4.30m, NMLC core 4.30-19.30m WATER OBSERVATIONS: No free groundwater observed whilst augering REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A Auger sample pp Pocket penetrometer (kPa)
D Disturbed sample PID Photo ionisation detector
B Bulk sample S Standard penetration test
U, Tube sample (x mm dia.) PL Point load strength 1s(50) MPa
Water sample V Shear Vane (kPa)
C Core drilling P Water seep Water level





CLIENT: AECOM Australia Pty Ltd PROJECT: Cross River Rail - Phase 1 LOCATION: Sampson Street, Annerley SURFACE LEVEL: 22 m AHD **EASTING:** 502833 **NORTHING:** 6957921 DIP/AZIMUTH: -90°/--

**BORE No: CRR105 PROJECT No:** 74321.00 **DATE: 23 April 2010** SHEET 4 OF 4

		Description	Degree of Weathering	<u>i</u>	Rock Strength	Fracture	Discontinuities				In Situ Testing	
골	Depth (m)	of		Srapt Log	Ex Low Very High Water Water	Spacing (m)	8 - Bedding J - Joint	Type	ore %	Rob %	Test Results &	
-	15.0	Strata  CONGLOMERATE - (as before)	WH WW SEE	(O)	지원 기원 기원 기업 기업	1,000	\$ - Shear D - Drill Break		ပည္	R	Comments PL(A) = 0.43MPa	
9	-16	- becoming low strength fractured, medium to coarse grained conglomerate  - 50mm medium to coarse grained sandstone interbed becoming fine to medium grained	200 - 100 -	000000000000000000000000000000000000000			\\ 16.15m: J: 30°, pl, ro 16.18m: J: sv, un, ro, to 16.32m 16.33m: J: 60°, un, sm 16.43m: J: 50°, un, ro,	C	100	93	PL(D) = 0.24MPa PL(A) = 0.92MPa PL(D) = 0.42MPa PL(D) = 0.42MPa PL(D) = 0.27MPa	
1 1lana 1lan	-17 - - - - - - - - - -	conglomerate  becoming slightly fractured, medium to coarse grained conglomerate					tim 16.55m: J: 60°, un, ro, lim	C	100	100	PL(A) = 0.27MPa PL(D) = 0.26MPa PL(A) = 0.23MPa	
, I		- 170mm siltstone interbed, bedding at 20°  - becoming fine to medium grained conglomerate					18.6m: J: sv, un, ro, to 18.75m	UCS	4	· village.	PL(A) = 0.23MPa PL(D) = 0.33MPa 1.225 MPa	
	18.95 - 19 - 19.3	SANDSTONE - medium strength, fresh, slightly fractured, grey medium to coarse grained sandstone, bedding at 10° - 80mm fine grained conglomerate interbed Bore discontinued at 19.3m						Approximation	Market Ma	TAXABLE PER PER PER PER PER PER PER PER PER PE	a property of the control of the con	

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## **SAMPLING & IN SITU TESTING LEGEND**

pp Pocket penetrometer (kPa)
PiD Photo ionisation detector
Standard penetration test
PL Point load strength is50) 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











