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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEO1 017/6-2010

BOREHOLE No	<u>BH59</u>
SHEET	<u>1</u> of <u>2</u>
REFERENCE No	<u>H11098</u>

PROJECT Moreton Bay Rail Link LOCATION At CPTu18, Fill 17, Ch.9400 COORDINATES 505079.8 E; 6988940.0 N
 PROJECT No FG5921 SURFACE R.L. 1.10m PLUNGE _____ DATE STARTED 27/6/11 GRID DATUM MGA94 Zone 56
 JOB No 250/120/3 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 27/6/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	1.10					Silty CLAY (Estuarine) Dark grey to black, moist, very soft to soft.							Based on Driller's logs only DD = 0.70t/m ³ ; WD = 1.40t/m ³ ; MC = 106%; LL-51%, PI=30%, LS=14+ Su (kPa)= 20 - 2 DD = 0.80t/m ³ ; WD = 1.50t/m ³ ; MC = 84%; LL-55%, PI=31%, LS=16+ Su (kPa) = 15 - 3 LL=67%, PI=40%, LS=19+ Su (kPa) = 14 - 3 DD = 0.80t/m ³ ; WD = 1.50t/m ³ ; MC = 85%; LL-53%, PI=30%, LS=16+ Su (kPa) = >50	
					A	High plasticity.								U100
					B	High organic contents; minor plant material at top.								FSV
						Contains fine grained sand fraction at base.								
					C									U100
					D		(CH/OH)							FSV
					E									U100
					F									FSV
					G								U100	
					H								FSV	
	-3.40				J	Silty CLAY (Alluvial) Pale grey, moist, mainly stiff to very stiff.							4.4,10 N=14	SPT
						High plasticity.								
						Minor iron staining in parts.								
					K		(CH)						3,5,6 N=11	SPT
					L								2,3,4 N=7	SPT
													3,6,10 N=16; No recovery	SPT
	-6.90				N	Silty SAND (Residual) Brown grey, moist, medium grained, medium dense.							3,9,18 N=27	SPT
						Contains minor clay fraction below 9.5m.								
						Highly erodible band between 8.5 to 10.0m.	(\$M/SP)							
					P								6,14,16 N=30	SPT
						(See over)								

REMARKS _____

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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No BH59
 SHEET 2 of 2
 REFERENCE No H11098

PROJECT Moreton Bay Rail Link
 LOCATION At CPTu18, Fill 17, Ch.9400 COORDINATES 505079.8 E; 6988940.0 N
 PROJECT No FG5921 SURFACE R.L. 1.10m PLUNGE DATE STARTED 27/6/11 GRID DATUM MGA94 Zone 56
 JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 27/6/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH						DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS				
										EH	VH	I	M	J	VL						EL	20	60	200
10	-8.90					Silty SAND (Residual) (Cont'd)																		
					Q																3,6,10 N=16	SPT		
11	-9.90					SANDSTONE Fine to medium grained, massive, poorly cemented sedimentary rock mainly comprising of sand-sized particles XW: Generally exhibits engineering properties of mottled grey brown, moist, medium grained, very dense silty sand.																		
					R	Relict rock fabric structure visible; iron staining in parts.				XW												10,26,30/130mm N>50	SPT	
12	-11.40					Interbedded SILTSTONE & MUDSTONE MW: Dark grey, fine grained, laminated, low to medium strength. Contains sandstone interbeds approx. 200mm thick in parts. Displays cracking and dessicated structure on drying.																		
				100		Defects: - Drilling-induced lamination partings @ 5-10° (5/m) - Joint @ 15° (1/m)																		
						Defect surfaces are close to widely spaced, planar, smooth and irregular, open and closed, clay infill or minor iron stained.																		
13																								
				100						MW														
14	-14.40																							
15																								
16						Borehole terminated at 15.5m																		
17																								
18																								
19																								
20																								

REMARKS _____

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Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	27/06/11
Borehole No	BH 59	TMR H No	
Location	Hays Inlet Overflow Bridge	Start Depth (m)	12.50
Detail	Embankment	Finish Depth (m)	15.50
Chainage	9374 Approx	Submitted By	BW
Remarks	@ CPTu 18		

