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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH05
SHEET 1 of 2
REFERENCE No H11015

PROJECT Moreton Bay Rail Link
LOCATION Bridge 3, Ch.2820 COORDINATES 500051.3 E; 6985143.0 N
PROJECT No FG5921 SURFACE R.L. 18.70m PLUNGE DATE STARTED 31/5/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 31/5/11 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	18.70					Silty CLAY (RESIDUAL) Mottled orange red to brown, moist, very stiff. Medium to high plasticity. Contains iron stained nodules.						Based on Driller's logs only	
1					A			(CI-CH)				4.8,12 N=20; LL=55%, PI=20%, LS=13+	SPT
2					B	Becoming more sandy below 2m.						4.6,12 N=18; LL=57%, PI=33%, LS=14+	SPT
3	15.70				C	Conglomeratic SANDSTONE Medium to coarse grained, massive, poorly cemented sedimentary rock XW: Generally exhibits the engineering properties of pale grey, moist, hard, gravelly sandy clay.						15,22,30/110mm N>50	SPT
4					D	Sand fraction is medium grained. Gravel fraction is subangular, high strength, sizing <20mm.	XW					14,19,24 N=43	SPT
5	13.70		(0)			Red brown iron staining throughout. HW: Grey to red, medium to coarse grained, very low strength. Exhibits engineering properties of hard conglomeratic gravelly clay.							
6			100 (0)			Very low strength. Gravel fraction is subangular to subrounded.						High strength inclusion (siliceous?) Band of coarse grained, well sorted particles	
7			100 (0)			Contains quartzitic fragments sizing <40mm.	HW						
8			100 (0)			Iron stained bands <120mm.							
			100 (0)			Frequent blue grey, fine grained, high strength quartzitic bands <80mm.							
			100 (0)										
			100 (0)									High strength quartzitic bands High strength QZ band	
9	10.06		100 (0)			CLAYSTONE Fine grained sedimentary rock comprising mainly of clay-sized particles HW: Mottled grey to orange red brown, fine grained, massive with minor laminations, very low strength.	HW					Possible XW bands	
10			100 (0)										

REMARKS

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DC2



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SHEET 2 of 2
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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	8.70				CLAYSTONE HW: (Cont'd) Orange iron stained bands sizing <250mm long. Defects: - Joints @ 15-20° (1/m) Defect surfaces are mainly medium to widely spaced, smooth, open or infilled with secondary minerals.							Is(50) = 0.07MPa Is(50) = 0.09MPa	x o
11			25 (20)					HW				Is(50) = 0.10MPa	x
12			100 (10)									Is(50) = 0.35MPa	x
13	6.20		100 (88)		Becoming interbedded with silts and muds below 12.0m.							Is(50) = 0.16MPa Is(50) = 0.05MPa	x o
14			91 (100)		Interbedded SILTSTONE and MUDSTONE Fine grained sedimentary rock comprising of silt and mud-sized particles HW: Grey to dark grey, black, orange brown, massive, fine grained, very low to low strength. Defects: - Drilling-induced lamination partings (~2/m) - Joints @ 45-50° (1/m) - Joints @ 70-75° (1/m) Defect surfaces are mainly medium spaced, clean, smooth, open, clean and minor iron stained.							Is(50) = 0.07MPa Is(50) = 0.04MPa	x o
15			100 (52)					HW				Is(50) = 0.12MPa	x
16			100 (42)									Is(50) = 0.21MPa	o
17			100 (83)								FeSt <17.0m		
18			100									Is(50) = 0.19MPa	x
19	-0.60				Borehole terminated at 19.3m								
20													

REMARKS _____


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0 100 200 300 400 500 600mm

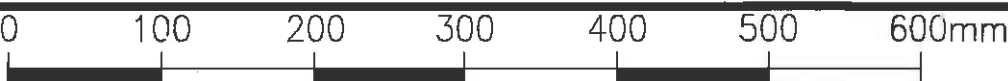
SCALE 1:5

GEOT043/1

Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	31/05/11
Borehole No	BH 5	TMR H No	11015
Location	Goodfellows Rd Bridge & Cutting	Start Depth (m)	5.00
Detail	Structure	Finish Depth (m)	19.30
Chainage	2840 Approx	Submitted By	BW
Remarks			



END HOLE



SCALE 1:5