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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH18
SHEET 1 of 2
REFERENCE No H11028

PROJECT Moreton Bay Rail Link
LOCATION Kinsellar Road Station, Ch.7390 COORDINATES 503518.2 E; 6987668.1 N
PROJECT No FG5921 SURFACE R.L. 2.10m PLUNGE _____ DATE STARTED 26/5/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 26/5/11 DRILLER R&D Drilling Pty Ltd

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
0	2.10		CORE REC %									
1	1.10			A	Silty CLAY (Topsoil) Dark to pale grey, moist, soft.						Based on Driller's logs only	
2	0.10			B	Silty CLAY (Alluvial) White, moist, stiff. High plasticity. Organic content.	(CH)					4,5,5 N=10	SPT
3				C	Sandy Silty CLAY (Residual) White, moist, very stiff to hard. High plasticity. Minor organic content. Less organic content.	(CH)					6,11,17 N=28	SPT
4	-1.90			D	SANDSTONE Medium grained, massive, poorly cemented sedimentary rock mainly comprising sand-sized particles XW: Generally exhibits the engineering properties of white to yellow brown, moist, hard, silty clay.	XW					7,14,16 N=30	SPT
5				E		HW					15,20,22 N=42	SPT
6	-3.90		(96)		MW: Yellow grey, medium grained, massive, mainly low to medium strength. Contains quartz feldspathic fragments in clay cemented matrix. Defects: Almost nil or rare.						16,24,31 N>50	SPT
7			100 (97)								Is(50) = 0.18MPa Is(50) = 0.20MPa	x x
8			100 (97)			MW					Is(50) = 0.15MPa Is(50) = 0.27MPa Is(50) = 0.15MPa Is(50) = 0.15MPa Is(50) = 0.21MPa	L x L x L
9			100 (97)		Colour change to dark grey.						Is(50) = 0.57MPa Is(50) = 0.62MPa	x L
10					(See over)							

REMARKS _____

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DC2 / LVD

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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	-7.90												
					SANDSTONE								
					MW: (Cont'd)								
			100									Is(50) = 1.61MPa Is(50) = 2.92MPa DD = 2.50t/m ³ ; MC = 3.7%; UCS=23.3MPa	x L UCS
	-8.70		(99)										
11					SW: Grey, medium grained, massive with slight laminated, medium to high strength.								
					Contains thin mudstone bands; horizontal bedding.								
					Defects: - Drilling-induced fracture @ 5° (1-2/m)								
12			100									Is(50) = 0.83MPa Is(50) = 0.95MPa Is(50) = 0.82MPa Is(50) = 0.62MPa	x L x L
			(96)		Defect surfaces are medium spaced, slightly rough, open and closed, clean or clay infilled.							Is(50) = 0.67MPa Is(50) = 1.13MPa Is(50) = 3.68MPa Is(50) = 3.43MPa	x L x L
												Is(50) = 0.89MPa	x
13													
												Is(50) = 0.96MPa Is(50) = 0.78MPa	x L
			100									DD = 2.23t/m ³ ; MC = 5.7%; UCS=12.1MPa	UCS
14			(96)									Is(50) = 0.80MPa Is(50) = 1.18MPa	x L
15	-12.83		100									Is(50) = 1.90MPa Is(50) = 3.31MPa	x L
					Borehole terminated at 14.93m								
16													
17													
18													
19													
20													

REMARKS _____

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Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	26/05/11
Borehole No	BH 18	TMR H No	11028
Location	Kinsellas Rd Station	Start Depth (m)	6.00
Detail	Structure	Finish Depth (m)	14.93
Chainage	7440 Approx	Submitted By	BW
Remarks			



0 100 200 300 400 500 600mm

SCALE 1:5