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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH12  
SHEET 1 of 2  
REFERENCE No H11022

PROJECT Moreton Bay Rail Link  
LOCATION Cut 4, Ch.5400 COORDINATES 502428.3 E; 6986055.5 N  
PROJECT No FG5921 SURFACE R.L. 20.50m PLUNGE DATE STARTED 11/5/11 GRID DATUM MGA94 Zone 56  
JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 11/5/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER 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	H	M	J	VL	EL	20	60					200
0	20.50					<b>Silty CLAY</b> Red, moist, stiff.															— Based on Driller's logs only		
1	19.50				A	<b>SANDSTONE</b> <b>Fine to coarse grained, massive, poorly cemented sedimentary rock comprising mainly of sand-sized particles</b> <b>HW:</b> Yellow to red, dry, hard, fine grained sandy clay.		HW													5,6,10/HB N>50	SPT	
2					B	Relict rock fabric structure visible.															30/120mm N>50	SPT	
3	18.00		(99)			<b>MW:</b> Grey to pink red, medium to coarse grained, massive, slightly laminated, mainly low strength.  Defects: - Drilling-induced bedding / lamination partings @ 5-10° (2-3/m)  Defect surfaces are generally medium spaced, irregular, slightly rough, open, with clay infill or iron stained.  Contains ferruginous bands throughout.  HW band between 4.75 - 5.60m.  Colour change to red.		MW													Is(50) = 0.21MPa	o	
4			100 (85)																		Is(50) = 0.21MPa Is(50) = 0.20MPa	x o	
5			100 (96)					HW													Is(50) = 0.36MPa Is(50) = 0.40MPa	x o	
6			100 (78)																		Is(50) = 1.05MPa Is(50) = 1.24MPa	x o	
7			100 (76)																		Is(50) = 0.37MPa Is(50) = 0.48MPa	x o	
8								MW													Is(50) = 0.20MPa Is(50) = 0.74MPa Is(50) = 0.21MPa Is(50) = 0.25MPa	x o x o	
9			100 (99)																		LP @ 5-10°		
10						(See over)															Is(50) = 0.13MPa	o	

REMARKS

LOGGED BY  
BW



# ENGINEERING BOREHOLE LOG

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BOREHOLE No BH12  
SHEET 2 of 2  
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DEPTH (m)	R.L. (m)	AUGER 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
10	10.50														
				100 (96)		<b>SANDSTONE</b> <b>MW: (Cont'd)</b> Grading into coarse grained sandstone with depth.							Is(50) = 0.15MPa Is(50) = 0.29MPa	x	
11													Is(50) = 0.67MPa Is(50) = 2.13MPa	x	
				100 (96)		Contains thin band of conglomerate between 11.25 - 11.65m depth.							Conglomerate band J @ 5°		
12						Colour change to grey, fine grained.							Is(50) = 0.15MPa Is(50) = 0.15MPa	x	
				100 (90)		Defects: - Drilling-induced lamination partings @ 5° (1/m)									
13						Defect surfaces are medium to wide spaced, irregular, slightly rough, open, clean or iron stained.	MW						Is(50) = 0.50MPa Is(50) = 0.66MPa Is(50) = 0.39MPa Is(50) = 0.67MPa	x	
				100 (99)		Becoming yellow grey to red, coarse grained, clayey matrix.							Is(50) = 0.17MPa Is(50) = 0.16MPa	x	
14															
15													Is(50) = 0.25MPa Is(50) = 0.28MPa	x	
	4.75												Is(50) = 0.27MPa	x	
16	4.28			100		<b>HW:</b> Light yellow to red, fine grained, low strength.	HW						Contains quartz grains with clayey matrix.		
						Borehole terminated at 16.22m									
17															
18															
19															
20															

REMARKS \_\_\_\_\_

LOGGED BY  
BW



<b>Project Name</b>	<b>Moreton Bay Rail Link (MBRL)</b>		
<b>Project No</b>	FG5921	<b>Date</b>	11/05/11
<b>Borehole No</b>	BH 12	<b>TMR H No</b>	11022
<b>Location</b>		<b>Start Depth (m)</b>	2.50
<b>Detail</b>	Cut	<b>Finish Depth (m)</b>	16.22
<b>Chainage</b>	Approx	<b>Submitted By</b>	BW
<b>Remarks</b>			

  

  
