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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH19</u>
SHEET	<u>1</u> of <u>2</u>
REFERENCE No	<u>H11030</u>

PROJECT Moreton Bay Rail Link LOCATION Bridge 111, Ch.7600 COORDINATES 503659.6 E; 6987853.4 N
 PROJECT No FG5921 SURFACE R.L. 2.20m PLUNGE _____ DATE STARTED 25/5/11 GRID DATUM MGA94 Zone 56
 JOB No 250/120/3 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 25/5/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER 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	TH	W	J				
0	2.20					ROCKFILL Clayey with rock fragments.									Based on Driller's logs only		
1	1.20				A	Silty CLAY (Alluvial) Dark brown, mottled red, moist, firm to mainly stiff. High plasticity.										2,3,5 N=8	SPT
2					B	Contains organic content. Becoming dark grey, firm.	(CH)									2,2,4 N=6	SPT
3					C	Becoming grey to mottled red below 2m.										5,6,8 N=14	SPT
4	-1.80				D	Sandy Silty CLAY (Residual) Dark grey, stiff to very stiff. High plasticity.										2,2,7 N=9	SPT
5					E	Minor organic content; sand fraction is fine grained. Colour change to red mottled, very stiff. High plasticity; abundant iron oxide nodules.	(CH)									9,11,13 N=24	SPT
6	-3.80				F	SANDSTONE Coarse grained, massive, poorly cemented sedimentary rock mainly comprising sand-sized particles. XW: Generally exhibits the engineering properties of grey, moist, dense to very dense gravelly sand.										11,14,20 N=34	SPT
7					G	Clay fraction throughout.	XW									6,9,29 N=38	SPT
8					H											30/90mm N>50	SPT
9	-6.30		(95)			MW: Yellow to light brown, fine to medium grained, massive, low strength. Contains quartz feldspathic iron oxide nodules in clayey matrix. Defects: Generally rare.	MW								Is(50) = 0.05MPa Is(50) = 0.08MPa	x o	
10															Is(50) = 0.06MPa Is(50) = 0.06MPa	o x	

REMARKS _____

LOGGED BY
BW / LVD



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DEPTH (m)	R.L. (m)	AUGER 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	IM	J	VL					
10	-7.80					SANDSTONE MW: (Cont'd) Contains interbeds of mudstone between 11.8m - 12.24m.													
				100 (97)				MW									Is(50) = 0.13MPa Is(50) = 0.12MPa	x	o
				100 (60)													Is(50) = 0.26MPa Is(50) = 0.05MPa	x	o
	-9.59					SW: Brown, fine grained, massive with laminated, low to medium strength. Intermittent bands of mudstone in parts. Defects: - Drilling-induced lamination partings @ 5° (1-2/m) - Joints @ 10° (1-2/m) Defect surfaces are close to medium spaced, planar, smooth, clean, closed and clay infilled.											Is(50) = 0.70MPa	x	
				100 (85)													DD = 2.41t/m ³ ; MC = 2%; UCS=35.7MPa		UCS
				100 (95)				SW									DD = 2.31t/m ³ ; MC = 3.7%; UCS=18MPa		UCS
16	-13.85			100		Borehole terminated at 16.05m													
17																			
18																			
19																			
20																			

REMARKS _____

LOGGED BY
BW / LVD

Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	25/05/11
Borehole No	BH 19	TMR H No	11030
Location	Tributary of Saltwater Creek	Start Depth (m)	8.50
Detail	Structure	Finish Depth (m)	16.05
Chainage	7600	Submitted By	BW
Remarks			

