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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH13
SHEET 1 of 2
REFERENCE No H11023

PROJECT Moreton Bay Rail Link
LOCATION Cut 4, Ch.5520 COORDINATES 502547.2 E; 6986126.6 N
PROJECT No FG5921 SURFACE R.L. 26.60m PLUNGE DATE STARTED 12/5/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 12/5/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING OTHER 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	IN	J	VL	EL						
0	26.60					SANDSTONE Medium to coarse grained, massive, poorly cemented sedimentary rock mainly comprising sand-sized particles XW: Generally exhibits engineering properties of light brown red, moist, medium to coarse grained, dense sand. Gradually grading into low strength rock with depth.												Non-destructive drilling up to 2m depth. (Based on Driller's logs only)			
1								XW													
2	24.60				A	HW: As above.		HW										30/100mm N>50			SPT
3	24.10		(85)			MW: Grey pink, fine grained, massive with faint laminations, low to medium strength. Defects: - Drilling-induced lamination partings @ 5-10° (2/m) - Joints @ 10° (1-2/m) - Joints @ 35° (1-3/m)												Is(50) = 0.50MPa Is(50) = 0.48MPa			
4			100			Defects surfaces are mainly medium to widely spaced, irregular, rough, open and closed, clay infilled and iron stained.												Is(50) = 0.42MPa Is(50) = 0.35MPa			
5			37			Red iron staining between 4.8m - 8.5m.												Is(50) = 0.55MPa Is(50) = 0.55MPa			
6			100															Is(50) = 0.37MPa Is(50) = 0.47MPa			
7			100			Contains clay bands in parts.		MW										Is(50) = 0.31MPa Is(50) = 0.40MPa			
8			100			Becoming pale grey between 8.0 - 10.0m.												Is(50) = 0.33MPa			
9			100															Is(50) = 0.29MPa Is(50) = 0.30MPa			
10																		Is(50) = 0.40MPa			
																		PROPOSED RAIL LEVEL @10M			
																		Is(50) = 0.29MPa Is(50) = 0.36MPa			
																		Vein of opal in CLy matrix			

REMARKS Observation well installed. Infiltration zone 14.0 and 17.0m.

LOGGED BY
BW / LVD

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SHEET 2 of 2
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DEPTH (m)	R.L. (m)	AUGER CASING OTHER CORE DRILLING	RQD () %	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		600	2000		
10	16.60				SANDSTONE MW: (Cont'd)		MW																
	16.10		100		Conglomeratic SANDSTONE HW: Grey to dark red brown, coarse grained, massive, low strength. Contains quartzitic chert, opal grains sizing <30mm, approx. 500mm thick. Defects: - Joint @ 10° - Joint @ 60° Defect surfaces are medium to widely spaced, irregular, rough, open and closed, clay infilled or iron stained.																		
11																							
			100																				
12																							
13			100		Becoming grey at 13.2m.																		
14																							
15			100		Becoming fine grained with more red iron staining between 14.0 - 14.3m. Becoming dark grey between 14.4 - 17.1m.		HW																
16			100																				
17																							
	9.27		100																				
					Borehole terminated at 17.33m																		
18																							
19																							
20																							

REMARKS Observation well installed. Infiltration zone 14.0 and 17.0m.

LOGGED BY
BW / LVD



Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	12/05/11
Borehole No	BH 13	TMR H No	11023
Location		Start Depth (m)	2.50
Detail	Cutting	Finish Depth (m)	17.33
Chainage	Approx	Submitted By	BW
Remarks			





SCALE 1:5