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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH02
SHEET	1 of 2
REFERENCE No	H11012

PROJECT Moreton Bay Rail Link LOCATION Cut 1, Ch.1010 COORDINATES 498441.3 E; 6984515.6 N
 PROJECT No FG5921 SURFACE R.L. 28.00m PLUNGE _____ DATE STARTED 1/6/11 GRID DATUM MGA94 Zone 56
 JOB No 250/120/3 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 2/6/11 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
								EH	VI	HW	VL	EL	20				
0	28.00				Silty CLAY (TOPSOIL) Red, moist, stiff.										Based on Driller's logs only		
1	27.00			A	Silty CLAY (Residual) Red brown, moist, firm. Medium plasticity.	(C)									N=4; LL=52%, PI=23%, LS=11+ 2,2,2	SPT	
2	26.00			B	Contains subrounded, high strength gravel fragments sizing <20mm; red iron staining throughout. Gravelly Silty CLAY (Residual) Mottled red brown to grey, moist, very stiff to hard.	(C)									N=42; LL=53%, PI=19%, LS=12+ 9,17,25	SPT	
3				C	Low to medium plasticity. Gravel fraction is rounded, sizing >10mm; red iron staining throughout.	(C)									9,10,14 N=24, LL=69%, PI=38%, LS=15+	SPT	
4	24.00			D	Interbedded CLAYSTONE & SANDSTONE CLAYSTONE: Fine grained sedimentary rock mainly comprising clay-sized particles SANDSTONE: Fine to coarse grained, massive, poorly cemented sedimentary rock comprising sand-sized particles XW: Generally exhibits the engineering properties of mottled grey to red brown, moist, hard, sandy clay.	XW									10,21,26 N=47; LL=54%, PI=33%, LS=13+	SPT	
5				E	Relict rock fabric and structure visible in parts; occasional iron stained nodules.										9,15,21 N=36; LL=46%, PI=26%, LS=11+	SPT	
6	22.00		(0)		HW: Grey to red, moist, hard, sandy clay. Sand fraction is medium to coarse grained.												
7			90		Contains subangular, high strength quartzitic bands; iron stained bands throughout.												
			(0)		Frequent blue grey, fine grained, high strength quartzitic bands <160mm thick.												
			(0)		Extremely low to low strength bands below 9.85m and 10.5m.												
			(0)														
			(0)														
			(0)														
			(0)														
			61														
			(68)														
10																	

REMARKS Observation well installed.

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BW / DC2

ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH02
SHEET 2 of 2
REFERENCE No H11012


PROJECT Moreton Bay Rail Link
LOCATION Cut 1, Ch.1010 COORDINATES 498441.3 E; 6984515.6 N
PROJECT No FG5921 SURFACE R.L. 28.00m PLUNGE DATE STARTED 1/6/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 2/6/11 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
									EH	VH	HM	JL	EL				
10	18.00					Interbedded CLAYSTONE & SANDSTONE HW: (Cont'd) Heavily iron stained bands between 10.9m - 11.75m; very low to low strength.											
			100 (85)				HW								High strength bands	Is(50) = 0.50MPa	x
11			67 (27)														
12	16.26		100 (53)			CLAYSTONE HW: Pale grey, fine grained, laminated, mainly very low to low strength. Defects: - Drilling-induced lamination partings @ 5-10° (1-2/m) Defect surfaces are mainly medium to widely spaced, planar, smooth, open and clean.											
							HW										
13	14.75		100 (73)			MW: Mottled grey to orange red brown, fine grained, mainly massive with slight laminations, very low to low strength. Becoming dark grey below 14.85m depth. Defects: - Drilling-induced lamination partings @ 5-10° (1-2/m) - Joints @ 15-20° (1-2/m) - Joints @ 25-30° (1/m) - Joints @ 45-40° (1/m) Defect surfaces are mainly medium spaced, planar, smooth, open, clean or minor iron stained.											
														Gravelly CLy bands	Is(50) = 0.06MPa	x	
14			100 (90)														
15			100 (35)			Occasional thin clay seams below 18m, approx. 30mm thick; red brown iron stained bands between 13.4m and 14.75m.											
							MW										
16			100 (17)														
17																	
18	9.34		100														
19						Borehole terminated at 18.66m											
20																	

REMARKS Observation well installed.

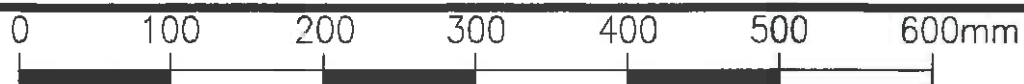
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Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	02/06/11
Borehole No	BH 2	TMR H No	11012
Location	Cut 1	Start Depth (m)	6.00
Detail	Cut	Finish Depth (m)	18.66
Chainage	1030 Approx	Submitted By	BW
Remarks			



SCALE 1:5

Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	02/06/11
Borehole No	BH 2	TMR H No	11012
Location	Cut 1	Start Depth (m)	6.00
Detail	Cut	Finish Depth (m)	18.66
Chainage	1030 Approx	Submitted By	BW
Remarks			



SCALE 1:5