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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH03</u>
SHEET	<u>1</u> of <u>3</u>
REFERENCE No	<u>H11013</u>

PROJECT Moreton Bay Rail Link
 LOCATION Fill 3, Ch.2100 COORDINATES 499337.9 E; 6985002.5 N
 PROJECT No FG5921 SURFACE R.L. 20.49m PLUNGE _____ DATE STARTED 3/6/11 GRID DATUM MGA94 Zone 56
 JOB No 250/120/3 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 3/6/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	OTHER 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	IV	IV	J	VL				
0	20.49					Gravelly CLAY & SAND Pale grey brown, moist, firm.										Non-destructive drilling up to 1.5m (Based on Driller's logs only)		
1																		
18.99					A	Silty CLAY (Alluvial) Mottled grey brown, red iron staining, moist, stiff. Medium to high plasticity.	(Cl-CH)										4,5,8 N=13	SPT
17.99					B	Gravelly CLAY (Residual) Pale grey, moist, mainly very stiff to hard. Contains iron stained nodules in parts. Sand fraction is fine to medium grained.									More gravelly		11,15,17 N=32	SPT
					C	Gravel fraction is subangular and high strength, sizing >10mm.										No gravels; high plasticity CLy	8,9,14 N=23	SPT
					D												9,10,10 N=20	SPT
					E	Occasional high strength quartzitic gravel sizing <40mm.	(CH)								Below 5.2m, gravel portion increases up to ~6.2m		9,12,13 N=25	SPT
					F	Mottled grey to red brown iron staining below 6.5m.											9,6,17 N=23	SPT
					G	Contains ferruginous iron stained nodules between 7.0m and 7.5m.											9,7,13 N=20	SPT
11.99					H	Silty CLAY (Residual) Pale grey, moist, stiff to very stiff. High plasticity; minor organic content.	(CH)										4,6,7 N=13	SPT
					J	Contains minor fine grained sand bands between 9.5 - 10.0m.											4,7,12 N=19	SPT

REMARKS _____

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ENGINEERING BOREHOLE LOG

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BOREHOLE No	<u>BH03</u>
SHEET	<u>2</u> of <u>3</u>
REFERENCE No	<u>H11013</u>

PROJECT Moreton Bay Rail Link
 LOCATION Fill 3, Ch.2100 COORDINATES 499337.9 E; 6985002.5 N
 PROJECT No FG5921 SURFACE R.L. 20.49m PLUNGE _____ DATE STARTED 3/6/11 GRID DATUM MGA94 Zone 56
 JOB No 250/120/3 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 3/6/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	OTHER 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	I	M	J				
10	10.49					Silty CLAY (Residual) (Cont'd) Becoming yellow brown below 10.5m.											
11					K		(CH)									7,8,10 N=18	SPT
12					L											4,7,11 N=18	SPT
13	7.99				M	MUDSTONE Fine grained sedimentary rock mainly comprising mud-sized particles HW: Generally exhibits the engineering properties of dark grey black, moist, hard. Relict rock fabric visible throughout.	HW									15,27,35 N>50	SPT
14	6.49				N											17,30,30/100mm N>50	SPT
15				(60)		Interbedded MUDSTONE & SANDSTONE MW: Grey to dark grey, fine grained, laminated, mainly low strength. Defects: - Lamination partings @ 5-10° (??/m) - Irregular fracture @ 85-90° (1/m)	MW									Is(50) = 0.20MPa	x
16	4.29			100 (47)		Defect surfaces are mainly close to medium spaced, planar, smooth, closed and open, clean or clay infilled.										Is(50) = 0.28MPa Is(50) = 0.19MPa	x o
17				100 (66)		SANDSTONE Medium to coarse grained, massive, poorly cemented sedimentary rock mainly comprising sand-sized particles MW: Grey, massive and partly laminated, mainly medium grained, mainly low to medium strength. Occasional carbonaceous bands in parts.										Is(50) = 0.15MPa	o
18				100 (100)		Defects: - Drilling-induced lamination partings @ 5-10° (1-2/m) Defect surfaces are mainly medium to widely spaced, irregular, slightly rough, open, clean or carbonaceous infilled.	MW									Is(50) = 0.21MPa Is(50) = 0.13MPa	x o
19																Is(50) = 0.31MPa Is(50) = 0.22MPa	x o
20				100 (95)		See over											

REMARKS _____

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ENGINEERING BOREHOLE LOG

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SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No BH03
SHEET 3 of 3
REFERENCE No H11013

PROJECT Moreton Bay Rail Link
LOCATION Fill 3, Ch.2100 COORDINATES 499337.9 E; 6985002.5 N
PROJECT No FG5921 SURFACE R.L. 20.49m PLUNGE DATE STARTED 3/6/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 3/6/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	OTHER 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
20	0.49					SANDSTONE MW: (Cont'd)							Massive SSt Thin, dark Carb band	Is(50) = 0.16MPa	o
21	-0.86		100 (82) 100 (100)				MW						BZ	Is(50) = 0.43MPa Is(50) = 0.36MPa	x o
22	-2.29					SW: Grey, medium to coarse grained, massive and partly laminated, medium to high strength. Defects as above.								Is(50) = 0.76MPa Is(50) = 4.29MPa	x o
23						Borehole terminated at 22.78m								Is(50) = 1.88MPa	x
24															
25															
26															
27															
28															
29															
30															

REMARKS _____

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Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	04/06/11
Borehole No	BH 3	TMR H No	11013
Location	Dohles Rocks Rd Overpass	Start Depth (m)	14.00
Detail	Structure	Finish Depth (m)	22.78
Chainage	2110 Approx	Submitted By	BW
Remarks			

