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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH04
SHEET 2 of 3
REFERENCE No H11014

PROJECT Moreton Bay Rail Link
LOCATION Kallangur Station, Fill 4, Ch.2600 COORDINATES 499825.0 E; 6985095.5 N
PROJECT No FG5921 SURFACE R.L. 16.00m PLUNGE _____ DATE STARTED 9/6/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 9/6/11 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
10	6.00		CORE REC %										
10				G	Silty CLAY (Cont'd) Becoming white to red, very stiff from 10m.							5,11,13 N=24	SPT
11													
12				H	Becoming grey @ 11.5m.	(CH)						6,11,14 N=25	SPT
13	3.00			J	CLAYSTONE Fine grained sedimentary rock mainly comprising of clay-sized particles XW: Generally exhibits engineering properties of light grey, moist, very stiff silty clay. High plasticity. Contains interbeds of mudstone in parts.							6,12,15 N=27	SPT
14													
15				K	Relict rock fabric structure visible throughout.	XW						10,17,25 N=42	SPT
16	0.00		(79)		MW: Light brown, laminated, low strength. Contains thinly laminated mudstone and siltstone bands. Defects: - Drilling-induced lamination partings @ 5° (1-2/m) - Joints @ 70° (1/m) - Joints @ 80-85° (1-2/m)							Is(50) = 0.12MPa DD = 2.03t/m ³ ; MC = 10.5%; UCS=2.61MPa	x UCS
17			100 (75)		Defect surfaces are medium spaced, planar, smooth, open and closed, clay infill.	MW						Is(50) = 0.13MPa Is(50) = 0.25MPa	x o
18												Is(50) = 0.13MPa	x
19	-2.90		100 (75)		MUDSTONE Fine grained sedimentary rock mainly comprising of mud sized particles SW: Brown black, laminated, low to medium strength.	SW						Is(50) = 0.26MPa Is(50) = 0.17MPa Is(50) = 0.39MPa Is(50) = 0.32MPa DD = 2.20t/m ³ ; MC = 6.2%; UCS=11.1MPa Is(50) = 0.32MPa Is(50) = 0.37MPa DD = 2.06t/m ³ ; MC = 10.3%;	x o x o UCS o UCS
20													

REMARKS _____

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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	H	M	L	VL	EL	20	40	60					80	100
20	-4.00					MUDSTONE SW: (Cont'd)																			
				100 (75)		Defects: Generally rare. - Fracture @ 65° (1/m) - Fracture @ 70° (1/m)			SW																
21						Defect surfaces are close to medium space, planar, smooth, open and closed, with clay infill.																			
	-5.90			100																					
22						Borehole terminated at 21.9m																			
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									

REMARKS

LOGGED BY
BW / JD / LVD

Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	09/06/11
Borehole No	BH 4	TMR H No	11014
Location	Kallangur Station	Start Depth (m)	16.00
Detail	Structure	Finish Depth (m)	21.90
Chainage	2590 Approx	Submitted By	BW
Remarks			



SCALE 1:5