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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH24  
SHEET 1 of 2  
REFERENCE No H11035

PROJECT Moreton Bay Rail Link  
LOCATION At CPTu1, Fill 7, Ch.4550 COORDINATES 501639.9 E; 6985766.8 N  
PROJECT No FG5921 SURFACE R.L. 10.70m PLUNGE        DATE STARTED 7/6/11 GRID DATUM MGA94 Zone 56  
JOB No 250/120/3 HEIGHT DATUM AHD BEARING        DATE COMPLETED 7/6/11 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
0	10.70					<b>Gravelly CLAY (TOPSOIL)</b> Red, moist, soft.							Non-destructive drilling up to 1.5m depth. Based on Driller's logs only	
1														
2	9.20				A	<b>Conglomeratic SANDSTONE</b> Medium to coarse grained, massive, poorly cemented sedimentary rock comprising mainly sand-sized particles <b>XW:</b> Generally exhibits the engineering properties of red, moist, hard, gravelly clay.							3,7,18 N=25	SPT
3					B	Medium plasticity. Contains quartz gravel sizing <30mm.							19,30/100mm N>50	SPT
4					C	Becoming white.							20,25,30/100mm N>50	SPT
5					D								11,12,24 N=36	SPT
6					E		XW						23,20,30/135mm N>50	SPT
7					F								42/85mm N>50	SPT
8					G								18,29,30 N>50	SPT
9					H	Becoming white with red iron staining; coarse gravel content increasing with depth.							4,17,23 N=40	SPT
10	1.20				J	<b>SILTSTONE</b> <b>XW:</b> (See over)							5,13,28 N=41	SPT

REMARKS \_\_\_\_\_

LOGGED BY  
DC2 / LVD



# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH24  
SHEET 2 of 2  
REFERENCE No H11035

PROJECT Moreton Bay Rail Link  
LOCATION At CPTu1, Fill 7, Ch.4550 COORDINATES 501639.9 E; 6985766.8 N  
PROJECT No FG5921 SURFACE R.L. 10.70m PLUNGE \_\_\_\_\_ DATE STARTED 7/6/11 GRID DATUM MGA94 Zone 56  
JOB No 250/120/3 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 7/6/11 DRILLER R&D Drilling Pty Ltd

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
10	0.70											
11	0.20		(22)		<b>SILTSTONE</b> <b>XW:</b> (Cont'd) Generally exhibits the engineering properties of red white, moist, hard, silty clay. <b>HW:</b> Grey yellow, fine grained, thinly laminated, very low to low strength. Colour change to dark grey and thinly laminated with mudstone.	XW						
12	-1.00		100 (36)		<b>MUDSTONE</b> <b>MW:</b> Yellow, grey to dark grey, laminated, medium strength. Defects: - Drilling-induced lamination parting @ 5° (2-3/m) - Joint @ 10° (1/m) - Fracture @ 75° (1/m) Defect surfaces are close, planar, smooth, closed, clay infilled.	MW					Is(50) = 0.34MPa Is(50) = 0.35MPa  DD = 2.36t/m <sup>3</sup> ; MC = 3.4%; UCS=20.8MPa Is(50) = 0.70MPa Is(50) = 1.48MPa Is(50) = 0.75MPa Is(50) = 1.27MPa	x o  UCS x o x o
13	-2.75		100								Is(50) = 1.16MPa Is(50) = 2.05MPa	x o
14					Borehole terminated at 13.45m							
15												
16												
17												
18												
19												
20												

REMARKS \_\_\_\_\_

LOGGED BY  
DC2 / LVD

<b>Project Name</b>	<b>Moreton Bay Rail Link (MBRL)</b>		
<b>Project No</b>	FG5921	<b>Date</b>	08/06/11
<b>Borehole No</b>	BH 24	<b>TMR H No</b>	110??
<b>Location</b>	Embankment between Brays & Hwy	<b>Start Depth (m)</b>	10.50
<b>Detail</b>	Embankment	<b>Finish Depth (m)</b>	13.45
<b>Chainage</b>	4550	<b>Submitted By</b>	BW
<b>Remarks</b>			

  

  
