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DMR_LIB_01A GLB_L0g_A_ENGINEERING BOREHOLE LOGW LITHOLOGY FG821 MORETON BAY RAIL LINK.GPJ_<CPTrangel CPT Tool gINt Add-In 06/10/2011 14:45

10

-8.20

ENGINEERING BOREHOLE LOG

BOREHOLE No	<u>BH46</u>
SHEET	<u>1</u> of <u>2</u>
REFERENCE No	<u>H11086</u>

3,4,8 N=12

SPT

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

PR	JECT	<u>More</u>	eton Bay	<u>Rai</u>	<u> Link</u>							
LOC	LOCATION 0.5m Right of CPT, Fill 19, Ch.12200 COORDINATES 507759.4 E; 6988532.9 N											
PR	PROJECT No FG5921 SURFACE R.L. 1.80m PLUNGE DATE STARTED 24/5/11 GRID DATUM MGA94 Zone 56											
JOE	No	_250/	120/3		HEIGHT DATUM <u>AHD</u> BEARING			DATE COM	PLETED	24/5/1	11 DRILLER <u>R&D Drilling</u> I	<u>Pty Ltd</u>
(E	R.L. (m)	RING	RQD ()%		MATERIAL	λ	SUI	INTACT STRENGTH	DEFECT SPACING (mm)	LOG	ADDITIONAL DATA	
PTH		E B B B B B B C B B C B C B C B C B C B		Ц	DESCRIPTION	DOG	HER			위	AND	SLES
B	1.00	AUGE CASII NASH NASH CORE	CORE	SAMF		LTHO	JSC	THE TETE	0000 0000 0000 0000	GRAF	TEST RESULTS	SAMF
-	1.30				Silty CLAY (Estuarine)							
-				A	CLAY (Estuarine) Grey with abundant yellow orange mottles, moist, soft to firm.						DD = 1.20t/m³; WD = 1.80t/m³; MC = 44.4%; Su=190kPa	U100 -
-1				в	High plasticity.						Su=85kPa	U50 -
				С	Minor trace of plant materials; possible acid sulfate soil (sulfurous odour).						Su=65-10kPa	FSV 2
-2					Becoming dark brown with depth.			<u>-</u>			$DD = 0.80t/m^3$. $WD = 1.50t/m^3$.	-

Becoming dark brown with depth. DD = 0.80t/m³; WD = 1.50t/m³; MC = 77.2%; Su=93kPa D (CH-OH) U100 Е Su=61-14kPa FSV + DD = 1.40t/m³; WD = 1.90t/m³ F U100 MC = 39%; Su=90kPa G Su=88-37kPa FSV -2.20 Silty CLAY (Residual) + 3,6,15 Н Grey with yellow red mottles, moist, firm to SPT N=21 very stiff. High plasticity; minor trace of sand. (CH) Iron stained nodules increasing with depth. Becoming very stiff below 4m. -3.70 Sandy CLAY (Residual) 3,6,10 N=16 SPT J Grey and dark red scattered with red mottles, moist, mainly stiff to very stiff. High plasticity. Becoming grey white and dark red scattered from 7m. Sand fraction is angular (quartz feldspathic), medium grained. 5,5,9 ĸ SPT N=14 (CH)

LOGGED BY REMARKS. DC2 / JSM

Becoming yellow and white scattered.

L

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ENGINEERING BOREHOLE LOG

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

DC2 / JSM

	PRO	JECT	Moreton Bay Rail Link													
	LOC	ATION	0.5m Right of CPT, Fill 19, Ch.12200							CC	ORDINATES	507759	9.4 E; 6988532.	<u>9 N _ </u>		
	PRO	JECT No	ی <u>FG5921</u> SURFACE R.L. <u>1.80m</u> PLUNGE DATE STARTE				TARTED	24/5/	<u>'11</u> GRID	DATUM	MGA94 Zone	56				
	JOB	No	250	/ <u>120/</u> 3	3		HEIGHT DATUM <u>AHD</u> BEARING			DATE COM	IPLETED	24/5/	<u>'11 </u>	ORILLER	R&D Drilling F	Pty Ltd
	DEPTH (m)	R.L. (m)	AUGER CASING MASH BORING		2D % RE	SAMPLE	MATERIAL DESCRIPTION	-ітногодү	JSC WEATHERING	INTACT STRENGTH ザデェミュラゴ	DEFECT SPACING (mm)	SRAPHIC LOG	ADD	OITIONAL AND ST RESU	DATA LTS	SAMPLES TESTS
	- 10	-0.20			, 10	M	SANDSTONE	_							21,30/115mm	SPT
	- - - - - - - - - - - - - - - - - - -			(10)0)		Medium to coarse grained, massive, poorly cemented sedimentary rock mainly comprising sand-sized particles HW:Yellow brown, moist, hard sandy clay. Yellow brown with white, black and grey mottles, medium grained, massive, very low to low strength. Iron staining throughout; occasional coal seams @13.25m approx. 20mm thick.		HW					Is(5 Is(5	0) = 0.17MPa 0) = 0.13MPa	x -
2011 14:45	- 12 - - - -			(10	00)		- Drilling-induced lamination partings @ 5-10° (<1/m) - Joints @8 0-90°(1-2/m) Defect surfaces are mainly widely spaced, irregular, rough, open and closed, clean or							ls(5	i0) = 0.23MPa	
n 06/10/2	- 13						iron stained.							ls(5	50) = 0.16MPa	0
t Add-I	-	-11 70		10	0								- Coal seams	lo/F	(0) = 0.24 MPa	v
MR_LIB_01A.GLB_Log_A_ENGINEERING BOREHOLE LOG W LITHOLOGY_FG5921 MORETON BAY RAIL LINK.GPJ_< <drawingfile>> Datgel CPT_Tool g</drawingfile>	14						Borehole terminated at 13.5m							Is(5	i0) = 0.55MPa	
arp	- 20															
			<u> </u>											1	OGGED BY	

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Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	24/05/11
Borehole No	BH 46	TMR H No	
Location	Kippa-Ring Station Approach	Start Depth (m)	10.50
Detail	Embankment	Finish Depth (m)	13.50
Chainage	12200	Submitted By	BW
Remarks			
-	C		
0 100) 200 300 400 SCALE 1:5	5 00 600	mm

GEOT043/1