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# **ENGINEERING**BOREHOLE LOG

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

BOREHOLE No \_\_\_\_BH62 \_\_\_

SHEET \_\_1\_\_ of \_\_3\_\_

REFERENCE No \_\_\_H11101 \_\_\_

PROJ						Link	-						
						SURFACERI 250m PLUNGE	COORI PLUNGE DATE STARTED <u>19/7/11</u>					OORDINATES <u>504227.6 E; 6988374.</u>	
JOB N						HEIGHT DATUM <u>AHD</u> BEARING							
DEPTH (m)	R.L. (m)	AUGER SASING WASH BORING	CORE DRILLING	RQD ( )%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES
0	2.50			IKLO 70	3,	Silty SAND (Alluvium) Dark grey to black, moist,fine grained, loose to medium dense.				+11111		— Based on Driller's logs only	0, 1
-						Organic contents: minor clay fraction throughout.	(	\$M/S	SP)				-
	1.00				Α					‡ : : : : : : : : : : : : : : : : : : :		1,3,6 N=9	SPT
-2		1	1			<b>Silty CLAY (Residual)</b> Mottled red brown and grey, moist, firm to stiff.		(CI	)				
14:40	0.00				В	Medium plasticity.  Iron staining throughout.				+		4,4,4 N=8	SPT
ORAN INDIVIDUO UNDINA MARINA M					С	SANDSTONE Fine to medium grained, massive, poorly cemented sedimentary rock mainly comprising of sand size particles XW: Generally exhibits engineering						4,6,12 N=18	SPT
						properties of yellow orange and red mottled, moist, fine grained, medium dense silty sand.							
					D	Contains iron concretionary nodules throughout.  Becoming moist to wet between 5m and 6m depth.						13,14,18 N=32	SPT
5					Е	Highly iron stained bands below 6m depth.						4,5,9 N=14	SPT
5 L								XW	/			N-14	-
6					F							5,8,30 N=38	SPT
												11,8,8	
					G							N=16	SPT
8					Н							14,8,10 N=18	SPT
	-6.00					HW: Yellow grey, moist, fine grained, dense to very dense silty sand.							
9					J	Minor clay fraction throughout.		HW	/			6,9,16 N=25	SPT
						(See over)				#			
	EMARK	S				(x						LOGGED BY	
												BW	



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## **ENGINEERING BOREHOLE LOG**

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

BH62 **BOREHOLE No** \_2\_ of \_3\_ SHEET <u>H11101</u> REFERENCE No

**PROJECT** Moreton Bay Rail Link Fill 15, Ch.8380 COORDINATES 504227.6 E; 6988374.1 N LOCATION PROJECT No\_FG5921\_\_\_\_\_ SURFACE R.L. 2.50m PLUNGE \_\_\_\_\_ DATE STARTED 19/7/11 GRID DATUM MGA94 Zone 56 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 19/7/11 JOB No DRILLER R&D Drilling Pty Ltd R.L. RQD INTACT DEFECT BORING ADDITIONAL DATA STRENGTH SPACING ()% (m) DEPTH (m) MATERIAL AND GRAPHIC SAMPLE AASHED OS.L-DESCRIPTION SAMPL TESTS WEAT

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S000 CORF **TEST RESULTS** nsc REC % 10 SANDSTONE 8,11,20 SPT HW: (Cont'd) N = 31Relict rock structure visible throughout; iron staining in parts. Contains interbeds of claystone below 10m, approx. 500mm thick. 17,26,23 SPT HW (44) Becoming grey, fine to medium grained, massive, very low to low strength. FG5921 MORETON BAY RAIL LINK.GPJ <<DrawingFile>> Datgel CPT Tool gINt Add-In 06/10/2011 14:46 Contains interbeds of claystone; occasional carbonaceous material in parts. Is(50) = 0.25MPa-10.76 Is(50) = 0.50MPaIs(50) = 0.29MPa0 MW: Grey, fine to medium grained, 100 massive with slightly laminations, low to Is(50) = 0.39MPaO (76) medium strenath. Is(50) = 0.85MPaDefects: Is(50) = 0.64MPa0 - Drilling-induced lamination / bedding partings @ 5° (2-3/m) - Joint @ 30° (1/m) - Joints @ 45° (2-3/m) Is(50) = 0.32MPaIs(50) = 0.53MPa0 MW Is(50) = 0.98MPaDefect surfaces are medium to wide 100 Is(50) = 1.56MPa0 spaced, irregular, rough, close, clean or (74) Is(50) = 0.78MPawith clay infill. Is(50) = 1.03MPa0 Is(50) = 0.79MPa-13.46 ls(50) = 0.71MPa0 MUDSTONE SW: Dark grey to black, laminated, low to medium strength. 100 (74) Low strength broken zone below 16.4m, LOG A\_ENGINEERING BOREHOLE LOG W LITHOLOGY SW BZ approx. 100mm thick. Defects: - Drilling induced lamination partings @ 5° ( 2-3/m) -15.01 Is(50) = 0.83MPa- Joint́ @ 45°( 1/m) Is(50) = 1.02MPa0 - Subhorizontal joint @ 80-90° (1/m) Sandstone interbedsIs(50) = 0.32MPa х Is(50) = 0.48MPa
Defect surfaces are medium spaced,
planar, irregular, smooth and slightly
rough, open and close with clay infill. 100 Defect surfaces are close to medium (63) spaced, planar, smooth and slightly rough, open, clean or clay infilled Cabronacerous lens in parts. Is(50) = 0.57MPa Interbedded SANDSTONE and MUDSTONE SW Is(50) = 1.15MPa 0 SW: Grey and dark balck, fine grained, Is(50) = 0.79MPalaminated, low to medium strength. Is(50) = 0.87MPa0 Defects: - Drilling induced lamination partings @ Sandstone interbeds 100 Is(50) = 0.76MPa5-10° (3-4/m) (58)ls(50) = 2.84MPa- Joint @ 10° (1/m) 0 -17.30 Joints @ 30-45° (2-3/m) SW Is(50) = 0.48MPaLOGGED BY REMARKS BW



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## **ENGINEERING BOREHOLE LOG**

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

BOREHOLE No \_\_BH62 \_\_ <u>3</u> of <u>3</u> SHEET REFERENCE No \_\_H11101\_\_

**PROJECT** Moreton Bay Rail Link Fill 15, Ch.8380 \_\_\_ COORDINATES 504227.6 E; 6988374.1 N LOCATION DATE STARTED 19/7/11 GRID DATUM MGA94 Zone 56 PROJECT No FG5921 SURFACE R.L. 2.50m PLUNGE \_\_\_\_ JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 19/7/11 DRILLER R&D Drilling Pty Ltd R.L. RQD INTACT DEFECT USC WEATHERING STANDARD STANDA ( )% ADDITIONAL DATA **SPACING** (m) DEPTH (m) MATERIAL LITHOLOGY AND SAMPLE DESCRIPTION CASING CA TESTS 2000 2000 2000 CORE **TEST RESULTS** REC % 20 MUDSTONE SW: Dark grey to black, massive with SW Is(50) = 0.99MPa Is(50) = 1.54MPa х -18.00 100 minor lamination, medium strength. Borehole terminated at 20.5m - 21 LIB\_01A GLB Log A\_ENGINEERING BOREHOLE LOG W LITHOLOGY F05921 MORETON BAY RAIL LINK. GPJ <-CDrawingFile>> Datgel CPT Tool gilkt Add-in 06/10/2011 14/46 - 29 9 LOGGED BY REMARKS\_ BW



Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	19/07/11
Borehole No	BH <b>62</b>	TMR H No	
Location	Hays Inlet Rail Bridge	Start Depth (m)	12.00
Detail	Structure	Finish Depth (m)	20.50
Chainage	8380	Submitted By	BW
Remarks	Near CPTu 8		
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No. of Persons	END	HOLE	
0 100	200 300 400	500 600r	nm
	SCALE 1:5		

CORE PHOTO LOG
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