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ENGINEERING BOREHOLE LOG

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

 BOREHOLE No
 _____BH41 ____

 SHEET
 _1___ of __2___

 REFERENCE No
 ____H11038____

DUECTNO_EGS21SURFACER_L	ROJECT		eton Bay									
BN0 250(20) HEIGHT DATUM ADD BEARING DATE COMPLETED 225(1) DRILLER RAD Dating Dry/ 1 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 00												
RL OP NOD MATERIAL OP NITACT DEFECT OP ADDITIONAL DATA 3 to 200 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <												
2.10 A SAND (Alluvial) Dark brown, molst, loose. texed or Driver logs only texed or Driver logs only 2.10 A SAND (Alluvial) Dark brown, molst, loose. (SP) texed or Driver logs only 8 0.00 B Sandy CLAY (Residual) Corey while with yellow red, orange and red streaking, stfit (SP) texed or Driver logs only 8 0.00 B Sandy CLAY (Residual) Corey while with yellow red, orange and red correctionary nodules troughout. 3.4.5 S 0.00 B Serve while with yellow red, orange and red streaking, stfit Medium to high plasticity, iron stained correctionary nodules troughout. texed or Driver logs only texed or Driver logs only 0 B Serve while with yellow red, orange and red texed or Driver logs only texed or Driver logs only 0 B Serve while with yellow red, orange and red texed or Driver logs only texed or Driver logs only 0 B Serve while with yellow red, orange and red texed or Driver logs only texed or Driver logs only 0 B Serve while with yellow red, orange and red units (throughout, molst, wery stift to hard, weathered to sity day. texed or Driver logs on Driver logs on Driver logs on Driver logs on Drivery driverse, incon malianing throughout, mo	R.L. (m)	30RING 0RILLING	RQD ()%		MATERIAL		П	INTACT	DEFECT		ADDITIONAL DATA AND	
0.60 A Dark bown, most, poorty cemented, medium grained, loose to medium dense. R. Dark bown, most, poorty cemented, medium dense. R. Dark bown, most, poorty cemented, medium dense. Sand fraction is subangular. Sand fraction is subangular. Sandy CLAY (Residual) Sandy CLAY (Residual											Based on Driller's logs only	
B Sandy CLAY (Residual) Grey white white yellow red, orange and red streaking, stiff. 3,4,5 S Medium grained quartz feldspathic sand throughout. Medium to high plasticity; iron stained concretionary nodules throughout. 4,3,3 S C Sand content increasing below 4m depth. 4,3,3 S D Sand content increasing below 4m depth. 4,3,3 S D Sand content increasing below 4m depth. 4,3,3 S E SILTSTONE HW: Grey white and grey with yellow red in staining throughout, moist, very stiff to hard, weathered to silly clay. S High plasticity. Interbedded MUDSTONE and SANDSTONE HW: Grey and brown with greyish white, for to staining throughout; subhorizontal laminae. HW 23,31/150mm N 50 S				A	Dark brown, moist, poorly cemented, medium grained, loose to medium dense. Trace of clay.		(SP)				2,3,7 N=10	SP
-3.90 E SlutSTONE -3.90 15.29.33 S -5.40 F Interbedded MUDSTONE and SANDSTONE +W 23.31/150mm N>50 S -5.40 F Interbedded MUDSTONE and SANDSTONE +W 23.31/150mm N>50 S -5.40 F Interbedded MUDSTONE and SANDSTONE +W 23.31/150mm N>50 S -5.40 F Interbedded MUDSTONE and SANDSTONE +W 23.31/150mm N>50 S -5.40 F Interbedded MUDSTONE and SANDSTONE +W 23.31/150mm N>50 S -5.40 F Interbedded MUDSTONE and SANDSTONE +W -5.40 S S -5.40 F Interbedded MUDSTONE and SANDSTONE -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 -5.40 <t< td=""><td>0.60</td><td></td><td></td><td>В</td><td>Grey white with yellow red, orange and red streaking, stiff. Medium grained quartz feldspathic sand throughout. Medium to high plasticity; iron stained</td><td>-</td><td></td><td></td><td></td><td></td><td>3,4,5 N=9</td><td>SP</td></t<>	0.60			В	Grey white with yellow red, orange and red streaking, stiff. Medium grained quartz feldspathic sand throughout. Medium to high plasticity; iron stained	-					3,4,5 N=9	SP
-3.90 Image: Silic Strone in the strong	i			С								
-5.40 F Interbedded MUDSTONE and SANDSTONE HW: Grey and brown with greyish white, fine to medium grained quartz feldspathic sand, very dense. HW 23,31/150mm N>50 S 0 -6.90 -6.90 Image: Comparison of the compa				D								SF
F Interbedded MUDSTONE and SANDSTONE Interbedded MUDSTONE and SANDSTONE Sandstone HW: Grey and brown with greyish white, fine to medium grained quartz feldspathic sand, very dense. Interbedded MUDSTONE and Interbedded MUDSTONE Sandstone Iron staining throughout; subhorizontal laminae. Interbedded MUDSTONE and source Interbedded MUDSTONE Sandstone				E	HW: Grey white and grey with yellow red iron staining throughout, moist, very stiff to hard, weathered to silty clay.						15,29,33 N>50	SF
				F	SANDSTONE HW: Grey and brown with greyish white, fine to medium grained quartz feldspathic sand, very dense. Iron staining throughout; subhorizontal		HW					SF
REMARKS LOGGED BY							L				LOGGED BY	<u> </u>

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH41</u>
SHEET	<u>2</u> of <u>2</u>
REFERENCE No	<u>H11038</u>

PROJECT Moreton Bay Rail Link Fill 19, Ch.11700 COORDINATES 507272.0 E; 6988569.9 N I OCATION _ _ _ _ _ PROJECT No FG5921 ____ DATE STARTED 23/5/11 GRID DATUM MGA94 Zone 56 SURFACE R.L. <u>3.10m</u> PLUNGE ____ DATE COMPLETED 23/5/11 JOB No 250/120/3 ____ HEIGHT DATUM _AHD ___ BEARING _____ DRILLER R&D Drilling Pty Ltd R.L. RQD INTACT DEFECT PUICARS PUI BORING ADDITIONAL DATA (m) ()% LOG DEPTH (m) MATERIAL **LITHOLOGY** AND GRAPHIC ß SAMPLE DESCRIPTION AUGER VASHE CORE C TESTS SAMPL CORE TEST RESULTS REC % 10 (100) MUDSTONE SW: Dark grey brown, laminated, low to medium strength. - J, 40°, P, S, CLy, 3mm Is(50) = 0.50MPa Contains sandstone bands below @12.2m х ls(50) = 0.83MPa approx. 400mm thick. 0 Defects: 100 - Drilling-induced lamination partings 5-10° Is(50) = 0.62MPa х SW (100) (2-3/m) ls(50) = 0.58MPa 0 Joint @ 15° (1/m) 12 Defect surfaces are medium spaced, planar, smooth, close, clean or clay infilled. ls(50) = 0.73MPa х Sandstone interbeds Is(50) = 1.13MPa 0 LIB 014GLB Log A ENGINEERING BOREHOLE LOS W LITHOLOGY FGS21 MORETON BAY RAL LINK GPJ - CD3:06ICFT Tool gMt Add-In 061020111445 J, 80°, P, S, T, Cn -9.90 100 ls(50) = 0.61MPa ls(50) = 0.52MPa Х 0 Borehole terminated at 13m -----14 15 16 17 18 19 DMR 20 LOGGED BY REMARKS_ DC2 / JSM

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Project Name	Moraton Pay Dail Link (MDDL)		
Project No	Moreton Bay Rail Link (MBRL)	Det-	02/05/0011
Borehole No	FG5921	Date	23/05/2011
	BH 41	TMR H No	10.00
Location	On centre line	Start Depth (m)	10.00
Detail	Embankment	Finish Depth (m)	12.98
Chainage	11700	Submitted By	BW
Remarks			
22		02	
AN INCOME			MIN
Charge Property in the sector		1.	
	000 744	500	
0 100	200 300 400	500 600r	nm
	SCALE 1:5		