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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH62</u>
SHEET	<u>1</u> of <u>3</u>
REFERENCE No	<u>H11101</u>

PROJECT Moreton Bay Rail Link -----

LOCATION Fill 15, Ch.8380 ----- COORDINATES 504227.6 E; 6988374.1 N -----

PROJECT No FG5921 SURFACE R.L. 2.50m PLUNGE ----- DATE STARTED 19/7/11 GRID DATUM MGA94 Zone 56 -----

JOB No 250/120/3 HEIGHT DATUM AHD BEARING ----- DATE COMPLETED 19/7/11 DRILLER R&D Drilling Pty Ltd -----

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	WEATHERING											GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								USC	EH	VH	I	N	J	V	L	EL	20	60			
0	2.50					Silty SAND (Alluvium) Dark grey to black, moist, fine grained, loose to medium dense. Organic contents: minor clay fraction throughout.														Based on Driller's logs only	
1					A			(\$M/SP)													1,3,6 N=9
	1.00					Silty CLAY (Residual) Mottled red brown and grey, moist, firm to stiff. Medium plasticity. Iron staining throughout.															
2					B			(CI)												4,4,4 N=8	SPT
	0.00					SANDSTONE Fine to medium grained, massive, poorly cemented sedimentary rock mainly comprising of sand size particles XW: Generally exhibits engineering properties of yellow orange and red mottled, moist, fine grained, medium dense silty sand.															
3					C															4,6,12 N=18	SPT
						Contains iron concretionary nodules throughout. Becoming moist to wet between 5m and 6m depth. Highly iron stained bands below 6m depth.															
4					D															13,14,18 N=32	SPT
						HW: Yellow grey, moist, fine grained, dense to very dense silty sand. Minor clay fraction throughout.															
5					E			XW												4,5,9 N=14	SPT
6					F															5,8,30 N=38	SPT
7					G															11,8,8 N=16	SPT
8					H															14,8,10 N=18	SPT
	-6.00																				
9					J			HW												6,9,16 N=25	SPT
10						(See over)															

REMARKS -----

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH62</u>
SHEET	<u>2</u> of <u>3</u>
REFERENCE No	<u>H11101</u>

PROJECT Moreton Bay Rail Link LOCATION Fill 15, Ch.8380 COORDINATES 504227.6 E; 6988374.1 N
 PROJECT No FG5921 SURFACE R.L. 2.50m PLUNGE _____ DATE STARTED 19/7/11 GRID DATUM MGA94 Zone 56
 JOB No 250/120/3 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 19/7/11 DRILLER R&D Drilling Pty Ltd

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	HM	JL	VL	EL	20	60			
10	-7.50				K	SANDSTONE HW: (Cont'd) Relict rock structure visible throughout; iron staining in parts. Contains interbeds of claystone below 10m, approx. 500mm thick.												8,11,20 N=31	SPT
11					L													17,26,23 N=49	SPT
12				(44)		Becoming grey, fine to medium grained, massive, very low to low strength. Contains interbeds of claystone; occasional carbonaceous material in parts.													
13	-10.76			100 (76)		MW: Grey, fine to medium grained, massive with slightly laminations, low to medium strength. Defects: - Drilling-induced lamination / bedding partings @ 5° (2-3/m) - Joint @ 30° (1/m) - Joints @ 45° (2-3/m)												Is(50) = 0.25MPa Is(50) = 0.50MPa Is(50) = 0.29MPa Is(50) = 0.39MPa	x o x o
14				100 (74)		Defect surfaces are medium to wide spaced, irregular, rough, close, clean or with clay infill.												Is(50) = 0.85MPa Is(50) = 0.64MPa Is(50) = 0.32MPa Is(50) = 0.53MPa	x o x o
15				100 (74)		Defect surfaces are medium to wide spaced, irregular, rough, close, clean or with clay infill.												Is(50) = 0.98MPa Is(50) = 1.56MPa Is(50) = 0.78MPa Is(50) = 1.03MPa	x o x o
16	-13.46			100 (74)		MUDSTONE SW: Dark grey to black, laminated, low to medium strength. Low strength broken zone below 16.4m, approx. 100mm thick.												Is(50) = 0.79MPa Is(50) = 0.71MPa	x o
17				100 (63)		Defects: - Drilling induced lamination partings @ 5° (2-3/m) - Joint @ 45° (1/m) - Subhorizontal joint @ 80-90° (1/m)												Is(50) = 0.83MPa Is(50) = 1.02MPa	x o
18	-15.01			100 (58)		Defect surfaces are close to medium spaced, planar, smooth and slightly rough, open, clean or clay infilled. Interbedded SANDSTONE and MUDSTONE SW: Grey and dark balck, fine grained, laminated, low to medium strength. Defects: - Drilling induced lamination partings @ 5-10° (3-4/m) - Joint @ 10° (1/m) - Joints @ 30-45° (2-3/m)												Is(50) = 0.32MPa Is(50) = 0.48MPa Cabronacerous lens in parts. Is(50) = 0.57MPa Is(50) = 1.15MPa Is(50) = 0.79MPa Is(50) = 0.87MPa	x o x o
19				100 (58)														Is(50) = 0.76MPa Is(50) = 2.84MPa	x o
20	-17.30																	Is(50) = 0.48MPa	x

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BOREHOLE No	<u> BH62 </u>
SHEET	<u> 3 </u> of <u> 3 </u>
REFERENCE No	<u> H11101 </u>

PROJECT Moreton Bay Rail Link -----

LOCATION Fill 15, Ch.8380 ----- COORDINATES 504227.6 E; 6988374.1 N -----

PROJECT No FG5921 SURFACE R.L. 2.50m PLUNGE DATE STARTED 19/7/11 GRID DATUM MGA94 Zone 56 -----

JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 19/7/11 DRILLER R&D Drilling Pty Ltd -----

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
20	-17.50					MUDSTONE SW: Dark grey to black, massive with minor lamination, medium strength.	SW						Is(50) = 0.99MPa Is(50) = 1.54MPa	x	o
21	-18.00		100			Borehole terminated at 20.5m									
22															
23															
24															
25															
26															
27															
28															
29															
30															

REMARKS -----

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Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	19/07/11
Borehole No	BH 62	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		

