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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH49
SHEET 1 of 3
REFERENCE No H11088

PROJECT Moreton Bay Rail Link
LOCATION Yebri Creek Rail Bridge, Abutment B, Ch 840 COORDINATES 498390.3 E; 6984307.7 N
PROJECT No FG5921 SURFACE R.L. 6.10m PLUNGE _____ DATE STARTED 12/7/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 12/7/11 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
0	6.10					Gravelly Silty CLAY (Residual) Mottled brown grey, moist, stiff to very stiff. Low plasticity. Gravel fraction is subangular, high strength quartzitic gravels sizing <30mm. Iron staining throughout; occasional ferruginous nodules in parts.							Based on Driller's logs only		
1					A								2,4,6 N=10	SPT	
2					B		(CL)						4,7,10 N=17	SPT	
3					C								6,9,14 N=23	SPT	
4					D								3,7,9 N=16	SPT	
5	1.10				E	Silty CLAYSTONE Fine grained sedimentary rock mainly comprising silt and clay-sized particles XW: Generally exhibits engineering properties of grey and red brown, moist, very stiff silty clay.							6,7,18 N=25	SPT	
6					F	Medium to high plasticity. Contains thin bands of fine grained sand in parts; minor iron staining throughout.							9,6,14 N=20	SPT	
7					G	Relict rock structure visible throughout. Displays cracking on drying.	XW						5,9,15 N=24	SPT	
8					H								4,8,12 N=20	SPT	
9					J								5,11,17 N=28	SPT	
10						(See over)									

REMARKS _____

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BOREHOLE No BH49
SHEET 2 of 3
REFERENCE No H11088

PROJECT Moreton Bay Rail Link
LOCATION Yebri Creek Rail Bridge, Abutment B, Ch 840 COORDINATES 498390.3 E; 6984307.7 N
PROJECT No FG5921 SURFACE R.L. 6.10m PLUNGE DATE STARTED 12/7/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 12/7/11 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
10	-3.90				K	Silty CLAYSTONE XW: (Cont'd)						4,8,10 N=18	SPT
11					L		XW					5,9,11 N=20	SPT
12	-5.35				M	Silty SANDSTONE Fine grained, massive, poorly cemented sedimentary rock mainly comprising sand-sized particles XW: Generally exhibits engineering properties of yellow, moist, fine grained, medium dense, clayey sand.						3,5,8 N=13	SPT
13					N		XW					4,8,12 N=20	SPT
14	-7.60				P	Interbedded SILTSTONE and MUDSTONE (Siltstone dominant) XW: Generally exhibits engineering properties of grey to dark grey, moist, laminated, very stiff to hard silty clay.						6,8,13 N=21	SPT
15					Q	Medium to high plasticity.						6,9,14 N=23	SPT
16					R	Relict rock structure visible throughout; minor thin carbonaceous bands in parts.	XW					8,15,20 N=35	SPT
17	-10.90				(100)	SANDSTONE SW: Grey, fine grained, massive with slightly laminated, mainly medium strength.						Is(50) = 0.63MPa Is(50) = 0.74MPa	x o
18					100 (95)	Contains thin interbeds of siltstone and mudstone sizing <160mm thick; becoming laminated below 20m depth.						Is(50) = 0.41MPa Is(50) = 0.44MPa DD = 2.25t/m ³ ; MC = 4%; UCS=11MPa (Shear failure)	x o
19					100 (100)	Defects: - Drilling-induced lamination partings @ 5-10° (1-2/m) - Joints @ 45° (<1/m) Defect surfaces are generally medium to widely spaced, irregular, smooth to slightly rough, open, clean or with secondary minerals infill.	SW					Is(50) = 3.47MPa Is(50) = 3.79MPa DD = 2.60t/m ³ ; MC = 2.1%; UCS=41.6MPa J, 45°, CA infill	x o
20						(See over)						Is(50) = 0.55MPa Is(50) = 0.53MPa I/B Siltstone & Mudstone Is(50) = 0.69MPa	x o x

REMARKS

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BOREHOLE No **BH49**
SHEET **3** of **3**
REFERENCE No **H11088**


PROJECT Moreton Bay Rail Link
LOCATION Yebri Creek Rail Bridge, Abutment B, Ch 840 COORDINATES 498390.3 E; 6984307.7 N
PROJECT No FG5921 SURFACE R.L. 6.10m PLUNGE DATE STARTED 12/7/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 12/7/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
20	-13.90												
21			100 (95)		SANDSTONE SW: (Cont'd)							Is(50) = 0.67MPa Is(50) = 0.40MPa Is(50) = 0.66MPa Is(50) = 0.65MPa Is(50) = 0.73MPa Is(50) = 0.35MPa Is(50) = 0.38MPa Is(50) = 0.42MPa Is(50) = 0.42MPa Is(50) = 0.21MPa Is(50) = 0.31MPa Is(50) = 7.58MPa Is(50) = 3.70MPa Is(50) = 0.36MPa Is(50) = 0.71MPa	o x o o o x o x o x o x o x o
22			100 (95)										
23	-16.90		100		Borehole terminated at 23m								
24													
25													
26													
27													
28													
29													
30													

REMARKS

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Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	12/07/11
Borehole No	BH 49	TMR H No	
Location	Yebri Creek Rail Bridge	Start Depth (m)	17.00
Detail	Abutment B Structure	Finish Depth (m)	23.00
Chainage	812 Approx	Submitted By	BW
Remarks			





SCALE 1:5