FINAL 19/07/2019

Queensland Government

GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS
REFER TO TMR FORM F:GEOT 017/10 - 2019

BOREHOLE No **BH28**
Sheet 1 of 2
REFERENCE No **H13349**

PROJECT Centenary Bridge Upgrade
LOCATION Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore
COORDINATES 494774.17 E; 6955057.25 N
PROJECT No FG18012
SURFACE RL -8.11m
PLUNGE 90°
DATE STARTED 14/03/2019
GRID DATUM MGA94 56J
JOB No 498/05038
HEIGHT DATUM m AHD
BEARING
DATE COMPLETED 15/03/2019
DRILLER Schneider Drilling

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( ) % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	GROUP SYMBOL / WEATHERING	INTACT STRENGTH EH VH H M L VL	DEFECT SPACING EC VC C M W VW	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0				A	SAND with silt, trace gravel (Alluvium) Dark grey and brown, wet, very loose. 90% fine to medium grained sand. 6% fines, low to medium plasticity. 4% fine to medium grained gravel. From 0.7m: Increase in clay content.					2, 1, 1 N=2	SPT
1											
2				B	From 2.0m: Becoming medium dense.					4, 6, 8 N=14	SPT
3				C	From 3.4m: Becoming loose to medium dense.					8, 5, 4 N=9 <75µm= 6%	SPT
4							SM				
5				D						2, 4, 4 N=8 <75µm= 2%	SPT
6				E						12, 14, 9 N=23	SPT
7					From 6.90m: becoming dense. Sand becoming fine to coarse grained, gravel becoming fine to coarse grained, sub-angular to sub-rounded grains.						
8				F						8, 14, 19 N=33	SPT
	-16.91										
9				G	Silty CLAY with gravel (Residual) Orange-brown and brown, moist, hard. 55% high plasticity clay. 15% low plasticity silt. 30% fine to medium gravel, angular grains.		(CH)			15, 30/100mm	SPT
	-18.11										

REMARKS: Barge deck at 3.094m AHD, 11.2m measured from barge deck to river bed

LOGGED BY	REVIEWED BY
E. Maxwell	S. Foley

TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

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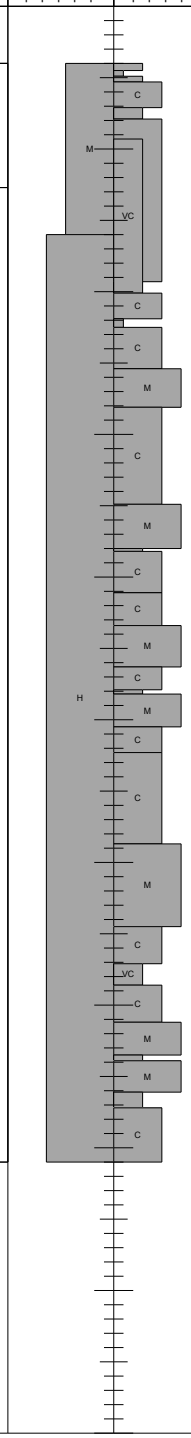
BEARING
DATE COMPLETED 15/03/2019
DRILLER Schneider Drilling

DEPTH (m)	R.L. (m)	RQD ( ) % / CORE REC %	MATERIAL DESCRIPTION	GROUP SYMBOL / WEATHERING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
			Silty CLAY with gravel (Residual) Continued.	(CH)		
	-18.51	(52)	METAGREYWACKE MA: Blue/grey, fine grained, medium strength. Quartz inclusion. Js1: 5-20° (4-7/m), Ro, TI-OP, Fe Stn, Cly Vr. Js2: 30-45° (2-4/m), Ro, TI-OP, Fe Stn, Cly Vr.	MA	Is(50)=0.07 MPa Is(50)=0.45 MPa	D (10.59m) A (10.62m)
11	-19.38	100				
		(73)	METAGREYWACKE SA: Blue/grey, fine grained, high strength. Quartz inclusion. From 12.25m: Js1: 5-20° (0-2/m), Ro, FL-OP, Fe Stn, Cly Vr. Js2: 30-45° (3-6/m), Ro, FL-OP, Fe Stn, Cly Vr.		Is(50)=0.20 MPa Is(50)=0.17 MPa	D (11.50m) A (11.54m)
12		100				
		(81)			Is(50)=2.20 MPa Is(50)=3.00 MPa	D (13.13m) A (13.21m)
13		100				
		(100)		SA	Is(50)=0.25 MPa Is(50)=0.71 MPa	D (14.62m) A (14.64m)
14		100				
		(71)			UCS=29.20 MPa	(15.58m)
15		100			Is(50)=1.50 MPa Is(50)=2.00 MPa	D (15.80m) A (15.82m)
16		100				
					Is(50)=0.75 MPa Is(50)=2.10 MPa	D (17.72m) A (17.74m)
17						
18	-26.21	100	Borehole completed at 18.10 m			
19						



REMARKS: Barge deck at 3.094m AHD, 11.2m measured from barge deck to river bed

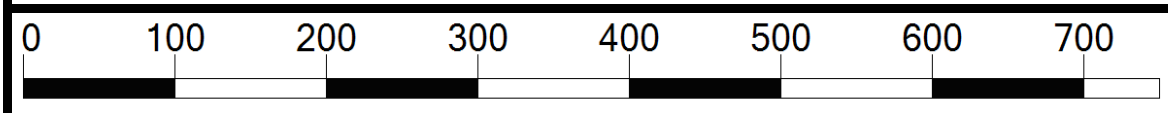
LOGGED BY	REVIEWED BY
E. Maxwell	S. Foley

TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

CORE PHOTO LOG
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Queensland Government

Project Name	**Centenary Bridge Upgrade – Geotechnical Investigation**		
Project No.	FG18012	Date	14-15/03/2019
Borehole No.	BH28	Reference No.	
Location	Brisbane River	Start Depth (m)	10.40
Submitted By	E.Maxwell	Finish Depth (m)	18.10



SCALE (mm)