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**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	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
1				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.	SM			2, 1, 1 N=2	SPT
2				B	From 2.0m: Becoming medium dense.				4, 6, 8 N=14	SPT
3										
4				C	From 3.4m: Becoming loose to medium dense.				8, 5, 4 N=9	SPT
5				D					<75µm= 6%	
6										
7				E					2, 4, 4 N=8	SPT
8				F	From 6.90m: becoming dense. Sand becoming fine to coarse grained, gravel becoming fine to coarse grained, sub-angular to sub-rounded grains.				<75µm= 2%	
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.				12, 14, 9 N=23	SPT
						(CH)			8, 14, 19 N=33	SPT
									15, 30/100mm	SPT
	-16.91									
	-18.11									

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

LOGGED BY

E. Maxwell

REVIEWED BY

S. Foley



**Queensland
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GEOTECHNICAL BOREHOLE LOG

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BOREHOLE No **BH28**

Sheet 2 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	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
	-18.51				Silty CLAY with gravel (Residual) Continued.	(CH)				
			(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)
	-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)
			100 (81)						Is(50)=2.20 MPa Is(50)=3.00 MPa	D (13.13m) A (13.21m)
			100 (100)			SA			Is(50)=0.25 MPa Is(50)=0.71 MPa	D (14.62m) A (14.64m)
			100 (71)						UCS=29.20 MPa Is(50)=1.50 MPa Is(50)=2.00 MPa	(15.58m) D (15.80m) A (15.82m)
	-26.21		100						Is(50)=0.75 MPa Is(50)=2.10 MPa	D (17.72m) A (17.74m)
					Borehole completed at 18.10 m					

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

LOGGED BY

E. Maxwell

REVIEWED BY

S. Foley

CORE PHOTO LOG
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

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

