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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH29**

Sheet 1 of 4

REFERENCE No **H13350**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Amazons Place Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494765.57 E; 6955014.93 N	
PROJECT No	FG18012	SURFACE RL	6.96m	PLUNGE	90°
				DATE STARTED	13/03/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	14/03/2019
				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
							EH _LH _VH	H _H _M _L _VL	EC _VC _C _M _W _VW									
1	6.06			A	CLAY with sand and silt, trace gravel (FILL) Brown, moist. 40% medium plasticity clay. 30% fine to coarse grained sand, sub-angular grains. 10% low to medium plasticity silt. 5% gravel, angular grains. Sandy SILT with clay (Alluvium) Pale brown/brown, moist, firm. 52% fines, medium plasticity. 48% fine grained sand, sub-rounded grains. From 2.0m: Becoming stiff.	(CI)										2, 3, 3 N=6	SPT	
2				B		ML											4, 4, 6 N=10	SPT
3																		
4				C													5, 5, 6 N=11	SPT
5	1.56																<75µm= 52%	
6				D	Silty CLAY with sand (Alluvium) Brown, moist, stiff. 40% medium plasticity clay. 30% medium plasticity silt. 30% fine to medium grained sand, sub-rounded grains.	(CI)											6, 6, 7 N=13	SPT
7				E														2, 4, 5 N=9
8	-1.14																	
9				F	Silty SAND (Alluvium) Dark grey, moist, very loose. 70% fine to medium grained sand, sub-rounded grains. 30% fines, medium plasticity. Interbedded with Silty CLAY.	SM											hw, hw, 1 N=1	SPT
	-3.04																	

REMARKS:

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S. Manson

S. Foley



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BOREHOLE No **BH29**

Sheet 2 of 4

REFERENCE No **H13350**

PROJECT Centenary Bridge Upgrade

LOCATION Amazons Place Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore COORDINATES 494765.57 E; 6955014.93 N

PROJECT No FG18012 SURFACE RL 6.96m PLUNGE 90° DATE STARTED 13/03/2019 GRID DATUM MGA94 56J

JOB No 498/05038 HEIGHT DATUM m AHD BEARING DATE COMPLETED 14/03/2019 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 _I _VL	DEFECT SPACING _EC _VC _C _M _W _VW	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
				G	Silty SAND (Alluvium) Continued.				1, hw, 2 N=2	SPT
11										
				H	From 11.5m: Becoming loose.				2, 2, 3 N=5 <75µm= 30%	SPT
12										
				I					hw, hw, 5 N=5	SPT
13										
				J	From 14.1m: Sand becoming medium dense, fine to coarse grained, sub-angular grains.	SM			6, 8, 12 N=20	SPT
14										
				K					7, 10, 14 N=24	SPT
15										
				L					9, 8, 6 N=14	SPT
16										
				M					3, 4, 12 N=16 <75µm= 51%	SPT
17										
18										
19										
-13.04										

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BOREHOLE No **BH29**

Sheet 3 of 4

REFERENCE No **H13350**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Amazons Place Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494765.57 E; 6955014.93 N	
PROJECT No	FG18012	SURFACE RL	6.96m	PLUNGE	90°
				DATE STARTED	13/03/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	14/03/2019
				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
							EH	VH			
	-13.14				Silty SAND (Alluvium) Continued.	(SM)					
				N	Silty CLAY (Alluvium) Pale brown, moist, stiff. 60% high plasticity clay. 40% medium to high plasticity silt.	(CH)					3, 4, 6 N=10 SPT
21					From 21.4m: With fine to coarse gravel, sub-rounded grains.						
	-15.34			O	Silty CLAY with gravel trace sand (Residual) Grey and orange/brown, moist, very stiff to hard. 35% medium to high plasticity clay. 30% medium plasticity silt. 30% fine to coarse gravel, sub-angular grains.	(CI)					4, 5, 12 N=17 SPT
23	-15.94				5% fine grained sand, sub-rounded grains.	XW					
	-16.64			P	METAGREYWACKE XW: Recovered as Gravelly Silty CLAY. METAGREYWACKE HW: Grey-brown, fine grained, medium strength.	HW					30/90mm SPT
24					Js1: 15-30° (4-10/m), Ro, TI-OP, Cly Vr, Fe Stn. From 24.63m: Js1: (3-6/m).	MW					
	-18.36			100 (73)	METAGREYWACKE MA: Blue, fine grained, high strength. With some quartz inclusions.	MA					Is(50)=0.07 MPa Is(50)=0.05 MPa D (24.10m) A (24.12m)
26					From 26.42m: Js1: 15-30° (1-4/m), Ro, FL-OP, Cn, minor Fe Stn.						
	-19.58			100 (94)	METAGREYWACKE SA: Blue, fine grained, high to very high strength. With some quartz inclusions.	SA					Is(50)=1.90 MPa Is(50)=1.70 MPa D (25.60m) A (25.62m)
27											Is(50)=0.73 MPa Is(50)=0.81 MPa D (26.76m) A (26.78m)
28											UCS=38.40 MPa (28.26m)
											Is(50)=0.92 MPa Is(50)=0.62 MPa D (28.52m) A (28.54m)
29											Is(50)=6.80 MPa Is(50)=4.40 MPa D (29.21m) A (29.23m)
	-23.04			100 (46)	From 29.6m: Js1: (3-6/m).						29.60m: 90mm fragmented zone.

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BOREHOLE No **BH29**

Sheet 4 of 4

REFERENCE No **H13350**

PROJECT Centenary Bridge Upgrade

LOCATION Amazons Place Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore COORDINATES 494765.57 E; 6955014.93 N

PROJECT No FG18012 SURFACE RL 6.96m PLUNGE 90° DATE STARTED 13/03/2019 GRID DATUM MGA94 56J

JOB No 498/05038 HEIGHT DATUM m AHD BEARING DATE COMPLETED 14/03/2019 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
31			100 (77)		METAGREYWACKE SA: Continued. From 30.6m: Js2: 35-50° (0-2/m), Ro, FL, Cly Vr, Fe Stn.	SA	H	C M	Is(50)=0.65 MPa Is(50)=1.00 MPa	D (30.06m) A (30.08m)
32	-25.04		100		Borehole completed at 32.00 m		H	C M VC	Is(50)=0.28 MPa Is(50)=0.70 MPa	D (31.70m) A (31.72m)
33										
34										
35										
36										
37										
38										
39										

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CORE PHOTO LOG
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Centenary Bridge Upgrade – Geotechnical Investigation		
Project No.	FG18012	Date	13-14/03/2019
Borehole No.	BH29	Reference No.	
Location	Brisbane River	Start Depth (m)	23.6
Submitted By	M.Hayes	Finish Depth (m)	32.00

