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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH30**

Sheet 1 of 4

REFERENCE No **H13351**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Amazons Place Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494768.90 E; 6954996.96 N	
PROJECT No	FG18012	SURFACE RL	8.04m	PLUNGE	90°
				DATE STARTED	11/03/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	12/03/2019
				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 _L _VH	H _L _M	M _L _V	VL	EC _L _V	C _L _M	M _L _V	W _L _V	VW			
1	7.34			A	Silty SAND with gravel (FILL) Pale brown, moist, dense. 50% fine to coarse grained sand, sub- rounded grains. 20% silt, low plasticity. 30% fine to coarse grained gravel, sub- angular grains.	(SM)										5, 6, 7 N=13	SPT	
2				B	CLAY with sand (Alluvium) Pale brown and brown, moist, stiff. 75% clay, low plasticity. 25% fine to medium grained sand, sub- rounded.	CL										4, 5, 7 N=12 LL=34% PI= 16% MC=13.4% LS=10%	SPT	
3	4.54			C	Silty Sandy CLAY (Alluvium) Brown, moist, very stiff. 35% clay, medium to high plasticity 35% fine to medium grained sand, sub- rounded grains 30% silt, medium plasticity.	(CI)										6, 7, 9 N=16	SPT	
4				D												6, 8, 10 N=18	SPT	
5	1.84			E	Silty SAND trace clay (Alluvium) Grey and orange/brown, moist, medium dense. 66% fine to medium grained sand, sub- rounded grains. 34% fines, medium plasticity.											10, 13, 16 N=29 <75µm= 34%	SPT	
6				F	7.7-9.3m: Sandy SILT with clay, firm. 35% medium plasticity silt, 55% fine to medium grained sand, sub-rounded grains, 10% medium plasticity clay.	SM										3, 3, 4 N=7	SPT	
7					From 9.3m: Becoming dark grey, loose. Sand becoming fine to coarse grained.													
8																		
9	-1.96																	

REMARKS:

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S. Manson

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BOREHOLE No **BH30**

Sheet 2 of 4

REFERENCE No **H13351**

PROJECT Centenary Bridge Upgrade

LOCATION Amazons Place Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore COORDINATES 494768.90 E; 6954996.96 N

PROJECT No FG18012 SURFACE RL 8.04m PLUNGE 90° DATE STARTED 11/03/2019 GRID DATUM MGA94 56J

JOB No 498/05038 HEIGHT DATUM m AHD BEARING DATE COMPLETED 12/03/2019 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 _H _M _I _VL	EC _VC _C _M _W _VW		
				G	Silty SAND trace clay (Alluvium) Continued.	(SM)				4, 4, 3 N=7 SPT
11	-3.06									
					Silty CLAY (Alluvium) Dark grey, moist, very soft to soft. 100% clay, high plasticity. With interbedded Silty SAND layers.					hw, hw, hw N<1 SPT
12				H						
13				I						hw, hw, hw N<1 LL=58% PI= 32% MC=46.9% LS=14% SPT
14										
15				J						1, 2, 1 N=3 SPT
16				K	From 16.3m: Becoming firm.	CH				hw, 2, 3 N=5 SPT
17										
18				L	From 17.5m: Becoming very stiff.					2, 10, 10 N=20 SPT
19				M	18.50m Becoming pale brown Silty CLAY with gravel and sand. 50% clay, high plasticity clay, 20% silt, medium plasticity, 20% fine to medium grained sand, sub-rounded grains, 10% fine to medium grained gravel, sub-rounded grains.					4, 5, 11 N=16 SPT
	-11.96									

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BOREHOLE No **BH30**

Sheet 3 of 4

REFERENCE No **H13351**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Amazons Place Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494768.90 E; 6954996.96 N	
PROJECT No	FG18012	SURFACE RL	8.04m	PLUNGE	90°
				DATE STARTED	11/03/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	12/03/2019
				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
21				N	Silty CLAY trace sand (Alluvium) Pale brown, moist, stiff. 75% clay, high plasticity. 20% silt, medium plasticity. 5% fine grained sand, sub-rounded grains.	(CH)				3, 4, 6 N=10 SPT
22				O						4, 5, 8 N=13 SPT
23	-14.86				Silty CLAY with sand, trace gravel (Residual) Orange/brown and blue/grey, moist, hard.	(CI)				15, 22, 30/145mm SPT
24	-15.76			P	45% clay, medium to high plasticity. 30% silt, medium plasticity. 20% fine to medium grained sand, sub-rounded grains. 5% fine to medium gravel, sub-angular grains.	XW				
25	-17.11			Q	METAGREYWACKE XW: Recovered as orange-brown, fine grained, hard.	HW				30/145mm SPT
26					METAGREYWACKE HW: Pale orange/brown, fine grained, low strength. Js1: 15-30° (5-8/m), Ro, TI-FL, Cly Vr, Fe Stn. Js2: 40-50° (1-3/m), Ro, TI-FL, Cly Vr, Fe Stn.	MW				Is(50)=0.61 MPa Is(50)=0.80 MPa D (25.55m) A (25.65m)
27	-18.82				From 26.0m: Becoming grey, stained pale orange/brown.	MW				Is(50)=0.75 MPa Is(50)=0.49 MPa D (26.18m) A (26.20m)
28					METAGREYWACKE SA: Grey, fine grained, high strength.	SW				
29	-21.96				From 27.85m: Js1: 15-30° (2-5/m), Ro, TI-FL, Cly Vr, Fe Stn.	SA				Is(50)=0.51 MPa Is(50)=0.93 MPa D (27.88m) A (27.90m)
									28.18m-28.22m: Extremely altered band. 28.18m: 40mm shear zone comprising Gravelly CLAY. 28.87m-28.92m: Extremely altered band. 28.87m: 50mm shear zone comprising Gravelly CLAY.	Is(50)=0.25 MPa Is(50)=1.00 MPa D (29.10m) A (29.12m)

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BOREHOLE No **BH30**

Sheet 4 of 4

REFERENCE No **H13351**

PROJECT Centenary Bridge Upgrade

LOCATION Amazons Place Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore COORDINATES 494768.90 E; 6954996.96 N

PROJECT No FG18012 SURFACE RL 8.04m PLUNGE 90° DATE STARTED 11/03/2019 GRID DATUM MGA94 56J

JOB No 498/05038 HEIGHT DATUM m AHD BEARING DATE COMPLETED 12/03/2019 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					METAGREYWACKE SA: Grey, fine grained, high strength.	SA				
32	-23.98		100		Borehole completed at 32.02 m				Is(50)=0.68 MPa Is(50)=1.60 MPa UCS=49.70 MPa	D (30.68m) A (30.70m) (30.79m)
33										
34										
35										
36										
37										
38										
39										

REMARKS:

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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	11-12/03/2019
Borehole No.	BH30	Reference No.	
Location	Brisbane River	Start Depth (m)	25.15
Submitted By	M.Hayes	Finish Depth (m)	32.02

