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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH08**

Sheet 1 of 5

REFERENCE No **H13328**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Koorlingal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494716.01 E; 6954979.11 N	
PROJECT No	FG18012	SURFACE RL	11.48m	PLUNGE	90°
				DATE STARTED	25/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	27/02/2019
				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 											

REMARKS: Piezometer installed to 40.50m with gatic cover. 6m slotted, 34.5m screen, 30.5m sand. Bentonite plug at 10m.

LOGGED BY

S. Manson

REVIEWED BY

S. Foley



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Sheet 2 of 5

REFERENCE No **H13328**

PROJECT Centenary Bridge Upgrade

LOCATION Kooringal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore COORDINATES 494716.01 E; 6954979.11 N

PROJECT No FG18012 SURFACE RL 11.48m PLUNGE 90° DATE STARTED 25/02/2019 GRID DATUM MGA94 56J

JOB No 498/05038 HEIGHT DATUM m AHD BEARING DATE COMPLETED 27/02/2019 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
				J	Silty SAND trace clay (Alluvium) Pale brown mottled dark brown, moist, medium dense. 79% fine to medium grained sand, sub- rounded grains. 21% fines, low plasticity. 11.00m Becoming very loose to loose.					8, 9, 10 N=19 SPT
11				K						4, 4, 3 N=7 SPT
12				L						14/03/2019 1, hw, 3 N=3 MC=27.3% <75µm= 21% SPT
13				M	13.40m: Becoming dark grey, fine to coarse grained sand, medium plasticity silt and clay.					2, 2, 4 N=6 SPT
14				N	14.00m Interbedded Silty CLAY layers. Becoming loose-medium dense.					4, 6, 6 N=12 SPT
15				O	From 15.00m With some silty CLAY interbeds.	SM				3, 5, 7 N=12 SPT
16				P	16.00m Becoming loose.					1, 3, 5 N=8 SPT
17				Q						4, 5, 4 N=9 SPT
18				R						2, 3, 5 N=8 SPT
19				S						1, 3, 2 N=5 SPT
-8.52										

REMARKS: Piezometer installed to 40.50m with gatic cover. 6m slotted, 34.5m screen, 30.5m sand. Bentonite plug at 10m.

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BOREHOLE No **BH08**

Sheet 3 of 5

REFERENCE No **H13328**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Koorlingal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494716.01 E; 6954979.11 N	
PROJECT No	FG18012	SURFACE RL	11.48m	PLUNGE	90°
				DATE STARTED	25/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	27/02/2019
				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	MH	LH	VL	EC	VC	C	M	W			VW

	-9.12			T	Silty SAND trace clay (Alluvium) continued.		SM									3, 5, 8 N=13	SPT
21				U	Silty CLAY trace sand (Alluvium) Dark grey, moist, very stiff. 60% clay, high plasticity. 35% silt, medium plasticity. 5% fine grained sand, rounded grains. 21.00 Becoming very stiff.											6, 9, 12 N=21	SPT
22				V												6, 10, 11 N=21	SPT
23				W			(CH)									7, 9, 11 N=20	SPT
24				X												7, 11, 13 N=24	SPT
25	-13.82			Y												7, 10, 22 N=32	SPT
26				Z	Gravelly Silty CLAY (Alluvium) Dark grey with red and yellow/orange, moist, very stiff to hard. 50% clay, high plasticity 15% silt, medium to high plasticity 35% fine to medium grained gravel, sub-angular grains. 25.80m Becoming dark grey, moist, very stiff, Silty CLAY trace sand.		(CH)									10, 8, 8 N=16	SPT
27	-15.66			AA	Gravelly Silty CLAY (Residual) Dark grey and orange/yellow, moist, hard.		(CI)									6, 27, 30/55mm	SPT
28	-16.02		(91)		45% clay, medium to high plasticity 15% silt, medium to high plasticity 40% fine to coarse grained gravel, angular to sub-angular grains. METAGREYWACKE (DCf) MA: Blue grey, fine grained, high to very high strength. With some Argillite interbeds throughout.		MA								27.81m: Fragmented zone.	UCS=22.80 MPa Is(50)=0.90 MPa Is(50)=0.62 MPa	(28.30m) D (28.43m) A (28.45m)
29	-18.52		100												28.66m: Fragmented zone.	Is(50)=1.60 MPa	D (29.84m) A (29.86m)

30.00m: Is: 40-50° (1-2/m),

Is(50)=1.60 MPa

REMARKS: Piezometer installed to 40.50m with gatic cover. 6m slotted, 34.5m screen, 30.5m sand. Bentonite plug at 10m.

LOGGED BY

S. Manson

REVIEWED BY

S. Foley



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BOREHOLE No **BH08**

Sheet 4 of 5

REFERENCE No **H13328**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Koorlingal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494716.01 E; 6954979.11 N	
PROJECT No	FG18012	SURFACE RL	11.48m	PLUNGE	90°
				DATE STARTED	25/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	27/02/2019
				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
			(93)		METAGREYWACKE (DCf) MA: continued. With crenulated quartz veinlets/veins throughout, <1mm thick to 1cm thick.				Is(50)=4.00 MPa	
31										
32									UCS=45.50 MPa E=48.3 GPa Is(50)=1.80 MPa Is(50)=3.00 MPa	(31.60m) D (31.75m) A (31.76m)
33			100 (100)							
34									Is(50)=4.30 MPa Is(50)=1.70 MPa	D (33.65m) A (33.68m)
35			100 (100)			MA	H-VH		Is(50)=0.82 MPa Is(50)=1.80 MPa	D (34.52m) A (34.54m)
36										
37										
38			100 (92)						Is(50)=1.90 MPa Is(50)=1.90 MPa	D (37.42m) A (37.44m)
39									Is(50)=2.10 MPa Is(50)=3.00 MPa	D (38.32m) A (38.33m)
	-28.52								39.08m: Fragmented zone.	D (39.65m) A (39.67m)

REMARKS: Piezometer installed to 40.50m with gatic cover. 6m slotted, 34.5m screen, 30.5m sand. Bentonite plug at 10m.

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BOREHOLE No **BH08**

Sheet 5 of 5

REFERENCE No **H13328**

PROJECT Centenary Bridge Upgrade

LOCATION Kooringal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore COORDINATES 494716.01 E; 6954979.11 N

PROJECT No FG18012 SURFACE RL 11.48m PLUNGE 90° DATE STARTED 25/02/2019 GRID DATUM MGA94 56J

JOB No 498/05038 HEIGHT DATUM m AHD BEARING DATE COMPLETED 27/02/2019 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		
	-29.16		100		METAGREYWACKE (DCf) MA: continued.	MA		M C		
					Borehole completed at 40.65 m					
41										
42										
43										
44										
45										
46										
47										
48										
49										

REMARKS: Piezometer installed to 40.50m with gatic cover. 6m slotted, 34.5m screen, 30.5m sand. Bentonite plug at 10m.

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REVIEWED BY

S. Manson

S. Foley

CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Centenary Bridge Upgrade - Geotechnical Investigation		
Project No.	FG18012	Date	25-27/02/2019
Borehole No.	BH08	Reference No.	H13328
Location	Koorinal Drive Park, Jindalee	Start Depth (m)	27.70
Submitted By	M. Hayes	Finish Depth (m)	40.65

