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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 **BH21**

Sheet 1 of 4

REFERENCE No **H13342**

PROJECT	Centenary Bridge Upgrade		
LOCATION	Amazons Place Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore		COORDINATES 494766.66 E; 6954973.82 N
PROJECT No	FG18012	SURFACE RL 9.87m	PLUNGE 90°
			DATE STARTED 13/02/2019
			GRID DATUM MGA94 56J
JOB No	498/05038	HEIGHT DATUM m AHD	BEARING
			DATE COMPLETED 15/02/2019
			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
1	8.77				Sandy CLAY with silt (Alluvium) Pale brown, moist, stiff. 55% clay, low to medium plasticity. 35% fine to coarse grained sand. 10% silt, low to medium plasticity.	(CI)				
				A	Clayey SILT (Alluvium) Pale brown, moist, very stiff. 80% silt, low plasticity. 20% clay, low plasticity.	(ML)				3, 6, 9 N=15 SPT
2				B						5, 8, 9 N=17 SPT
	7.07				Silty SAND (Alluvium) Brown, moist, mainly medium dense. 83% fine to medium grained sand. 17% fines, low plasticity.					3, 3, 4 N=7 SPT
3				C						
4				D						4, 7, 8 N=15 MC=25% <75µm= 17% SPT
5				E		SM				5, 8, 12 N=20 SPT
6				F						5, 6, 7 N=13 SPT
7				G						6, 9, 13 N=22 SPT
	2.07				Clayey SILT trace sand (Alluvium) Brown, moist, very stiff-hard. 65% silt, low plasticity. 30% clay, low to medium plasticity. 5% fine grained sand.	(ML)				10, 16, 23 N=39 SPT
8				H						
9				I						7, 12, 12 N=24 SPT
	-0.03				9.40-9.90m: Becoming grey, high plasticity Silty CLAY.					

REMARKS:

LOGGED BY

S. Manson

REVIEWED BY

S. Foley



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BOREHOLE No **BH21**

Sheet 2 of 4

REFERENCE No **H13342**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Amazons Place Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494766.66 E; 6954973.82 N	
PROJECT No	FG18012	SURFACE RL	9.87m	PLUNGE	90°
				DATE STARTED	13/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	15/02/2019
				DRILLER	Schneider Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING CORE REC %	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY GROUP SYMBOL / WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
11				J	Silty SAND with clay (Alluvium) Orange to brown, moist, loose. 70% fine to medium grained sand. 25% silt, low plasticity. 5% clay, low plasticity. From 10.6m: Becoming dark grey.					3, 4, 5 N=9 SPT
				K						1, 2, 4 N=6 SPT
12				L	From 12.0m: Becoming very loose with interbedded dark grey, very soft to soft, high plasticity Silty CLAY layers.					hw, hw, 1 N=1 SPT
13				M						3, 1, 2 N=3 SPT
14				N	From 14.0m: Becoming medium dense.					7, 8, 10 N=18 SPT
15				O	From 15.0m: Becoming loose.	(SM)				3, 4, 4 N=8 SPT
16				P						3, 1, 5 N=6 SPT
17				Q						2, 2, 4 N=6 SPT
18				R	From 18.0m: Becoming very loose.					4, 1, hw N=1 SPT
19				S						hw, hw, hw N<1 SPT
-10.13									20.00m: Clay band, stiff.	

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BOREHOLE No **BH21**

Sheet 3 of 4

REFERENCE No **H13342**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Amazons Place Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494766.66 E; 6954973.82 N	
PROJECT No	FG18012	SURFACE RL	9.87m	PLUNGE	90°
				DATE STARTED	13/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	15/02/2019
				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
21				T	Silty SAND with clay (Alluvium) Orange to brown, moist, very loose to loose. 70% fine to medium grained sand. 25% silt, low plasticity. 5% clay, low plasticity.	(SM)			hw, 6, 7 N=13	SPT
				U					hw, hw, 1 N=1	SPT
22				V					hw, hw, 4 N=4	SPT
23				W					hw, hw, 1 N=1	SPT
24				X					2, hw, 1 N=1	SPT
25	-15.33			Y	Silty CLAY (Residual) Yellow to brown, moist, hard. 60% clay, high plasticity. 40% silt, medium to high plasticity.	(CH)			Su(PP)=300 kPa	U50
26				Z					26, 30/130mm	SPT
27	-17.13			AA	ARGILLITE XW: Recovered as pale yellow/brown, moist, hard Silty CLAY				25, 30/110mm	SPT
28	-18.33			AB	ARGILLITE HW: Orange to brown, fine grained, low to medium strength. Iron staining with some quartz inclusions. Js: 35-50°, (4/m), Ro, Irr, FL, Fe Stn.	HW-MW			28, 30/70mm hb	SPT
29	-19.23			100 (81)	ARGILLITE SW: Blue to grey, fine grained, high strength.	SW			28.68m-29.10m: XW: fragmented zone. 29.10m: Js: 35-50°, (4/m), Ro, Irr, FL, Fe Stn.	D (28.40m) A (28.42m) D (29.15m) A (29.17m) D (29.65m) A (29.67m)

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BOREHOLE No **BH21**

Sheet 4 of 4

REFERENCE No **H13342**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Amazons Place Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494766.66 E; 6954973.82 N	
PROJECT No	FG18012	SURFACE RL	9.87m	PLUNGE	90°
				DATE STARTED	13/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	15/02/2019
				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
31					ARGILLITE SW: Blue to grey, fine grained, high strength. Js: 10-20°, (3-4/m), Sm-Ro, TI-OP, Fe Stn. Js: 35-50°, (2-3/m), Sm, TI-OP, Fe Stn.	SW		M	UCS=29.00 MPa E=39.5 GPa	(30.80m)
								C		
								C		
								M		
								C	Is(50)=2.80 MPa	D (31.50m)
32								M		
								C		
								M		
								H	Is(50)=0.06 MPa Is(50)=0.89 MPa	D (32.42m) A (32.45m)
								W		
33			100 (83)		33.4-33.5m: Fractured zone.	MA		M		
								C		
								C	Is(50)=0.02 MPa Is(50)=0.88 MPa	D (33.54m) A (33.55m)
34					From 33.94m: Fractured/fragmented zone ~20mm.			C		
								C		
								C		
								M	Is(50)=7.30 MPa	A (34.51m)
35			100 (8)		ARGILLITE MA: Blue to grey to purple, fine grained, medium to high strength.			M	Is(50)=0.87 MPa Is(50)=0.69 MPa	D (34.85m) A (34.86m)
								M		
								C		
36						MA		H		
								C		
								M	Is(50)=1.20 MPa Is(50)=0.57 MPa	D (36.35m) A (36.36m)
								C		
								EC		
37			100 (78)		From 36.8m: Clay seam ~60mm. From 36.92m: Fragmented zone ~25mm			M	Is(50)=0.59 MPa Is(50)=0.94 MPa	D (37.24m) A (37.25m)
								M	UCS=6.54 MPa	(37.60m)
								C		
38								H-VH	Is(50)=0.39 MPa Is(50)=1.90 MPa	D (38.25m) A (38.26m)
								M		
39								C		

Borehole completed at 40.00 m

REMARKS:

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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	13-15/02/2019
Borehole No.	BH21	Reference No.	H13342
Location	Koorinal Drive Park, Jindalee	Start Depth (m)	28.20
Submitted By	M. Hayes	Finish Depth (m)	40.00

