

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "*(c) State of Queensland (Department of Transport and Main Roads) 2026, licensed under the CC BY 4.0 Licence*". This licence does not apply to the Queensland Government logo or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://ggd.org.au/>



**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH11**

Sheet 1 of 3

REFERENCE No **H13331**

PROJECT	Centenary Bridge Upgrade				
LOCATION	27 Vidgen Lane, Kenmore, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494763.99 E; 6955263.95 N	
PROJECT No	FG18012	SURFACE RL	18.20m	PLUNGE	90°
				DATE STARTED	20/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	25/02/2019
				DRILLER	All Tech 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	CLAY with sand, trace gravel (Alluvium) Brown with trace red mottling, dry, stiff. 67% clay, low plasticity.	CL			5, 5, 5 N=10	SPT
				B	25% fine grained sand, sub-rounded to sub-angular.					DIST
				C	8% fine grained gravel, sub-angular grains. Trace organics (charcoal, roots etc.). From 1.0m: Becoming brown to red.				4, 5, 5 N=10	SPT
2				D	From 1.8m: Becoming brown to yellow and very stiff.				MC=13.6% <75µm= 67%	DIST
				E	From 2.25m: Increase in clay content.				5, 10, 8 N=18	SPT
3	15.20			F	CLAY trace sand and gravel (Residual) Yellow-brown trace orange mottling, dry, hard.	(CI)			13, 15, 20 N=35	SPT
				G	80% clay, medium plasticity.					DIST
4				H	10% fine grained sand, rounded to sub-rounded grains.				10, 10, 25 N=35	SPT
				I	10% fine grained gravel, sub-rounded to sub-angular grains.					DIST
5				J	From 4.0m: Becoming red-brown-grey, high plasticity clay.				15, 22, 25 N=47	SPT
				K						DIST
6				L	From 6.0m: Becoming brown-yellow-grey.				30/130mm	SPT
				M						DIST
7	11.20			N	AGGLOMERATE XW: Recovered as pale red to grey, dry, hard, Gravelly CLAY.				30/100mm	SPT
				O	60% clay, low plasticity.					DIST
8	10.10			P	40% fine grained gravel, sub-angular to angular grains.				30/110mm	SPT
			(0)		CORE LOSS 8.10-8.51m					
9	9.69				AGGLOMERATE HW: Green grey to pale brown, trace pale red mottling, moist, fine grained matrix, fine to coarse grained clasts (argillite), sub-angular to sub-rounded, hematite staining, very low to low strength.	HW			8.51m-10.52m: HW to MW ARGILLITE fragments throughout	D (8.60m) A (8.61m)
			67 (0)			XW			Is(50)=0.04 MPa Is(50)=0.06 MPa	
	8.20					HW				

REMARKS:

LOGGED BY

REVIEWED BY

H. Menon

S. Foley



**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH11**

Sheet 2 of 3

REFERENCE No **H13331**

PROJECT Centenary Bridge Upgrade

LOCATION 27 Vidgen Lane, Kenmore, M5 Centenary Motorway, Jindalee to Kenmore

COORDINATES 494763.99 E; 6955263.95 N

PROJECT No FG18012

SURFACE RL 18.20m

PLUNGE 90°

DATE STARTED 20/02/2019

GRID DATUM MGA94 56J

JOB No 498/05038

HEIGHT DATUM m AHD

BEARING

DATE COMPLETED 25/02/2019

DRILLER All Tech 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
7.68	7.53		89 (25)		AGGLOMERATE HW: Continued. Interbedded silicified bands, high strength and weathered matrix becoming very stiff to hard, CLAY. CORE LOSS 10.52-10.67m AGGLOMERATE HW: Continued.	HW			Is(50)=0.10 MPa Is(50)=0.16 MPa	D (10.20m) A (10.21m)
11						HW			10.67m: Js: 0-15° (6-8/m), Sm, FL, Clay, Fe Stn.	
12			100 (36)			MW			11.13m-11.64m: Becoming grey-green, slightly foliated. Js: 0-10° (8-10/m), Sm, FL-TI, Fe Stn. 11.64m: Js: 0-10° (3-5/m), Sm, TI-OP, Fe Stn. 11.75m-12.23m: Rock fragments embedded in clay matrix.	D (11.55m) A (11.58m)
13						HW			12.50m: Becoming fine to medium grained. Js: 0-10° (4-5/m), Sm, TI-OP, Fe Stn.	D (13.16m) A (13.17m) (13.40m)
14	3.50		100 (32)			MW			13.90m-14.00m: Crushed surface. 14.00m-14.15m: J: 70°, Sm, OP, Fe Stn.	
15					ARGILLITE (DCf) MW: Green to grey, fine grained, foliated, medium to high strength. Quartz veining throughout, hematite stained/filled joints, some clast supported conglomerate argillite, fine to coarse grained, sub-rounded to sub-angular. 15.50-15.85m Recovered as green-grey, moist, very dense, Clayey GRAVEL. Fine to coarse grained gravel, medium to high plasticity clay, iron staining.	MW			14.75m-15.50m: Js: 0-10° (10-12/m), Sm, TI-OP, Fe Stn.	
16			100 (24)			HW			15.50m-15.85m: HW zone, with some clay seams up to 5cm.	D (15.40m) A (15.42m)
17	1.05 0.90					MW			16.90m-17.15m: Recovered as blue green, moist, very dense, Clayey GRAVEL. Fine to coarse grained gravel, medium to high plasticity clay. 17.60m: Clay seam.	D (16.45m) A (16.46m)
18			100 (46)		CORE LOSS 17.15-17.30m ARGILLITE (DCf) SW: Dark green grey, fine grained, weakly foliated, medium to high strength. From 17.3m: Js: 10-30° (2-4/m), Sm, TI, Cn.	SW			18.52m: Crushed seam. 18.63m: Clay seam.	D (18.39m) A (18.40m)
19	-1.80								UCS=7.28 MPa E=6.71 GPa v= 0.181 Is(50)=0.68 MPa	(19.40m) D (19.56m) A (19.57m)

REMARKS:

LOGGED BY

H. Menon

REVIEWED BY

S. Foley



**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH11**

Sheet 3 of 3

REFERENCE No **H13331**

PROJECT	Centenary Bridge Upgrade				
LOCATION	27 Vidgen Lane, Kenmore, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494763.99 E; 6955263.95 N	
PROJECT No	FG18012	SURFACE RL	18.20m	PLUNGE	90°
				DATE STARTED	20/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	25/02/2019
				DRILLER	All Tech 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 _W _L _VL	EC _VC _C _M _W _VW				
21	-3.30		100 (72)	ARGILLITE (DCf) SW: Green to grey, fine grained, foliated, medium to high strength. Quartz veining throughout, hematite stained/filled joints, some clast supported conglomerate (argillite), fine to coarse grained, sub-rounded to sub- angular.	SW	SA	MA	SA	MA	Is(50)=0.51 MPa Is(50)=0.41 MPa Is(50)=0.01 MPa 21.00m-21.15m: Clay band. 22.00m: Js: 5-20° (6-8/m), Sm, Tl, Cn, Fe Stn. Js: 30-45° (1-3/m), Sm, Tl, Cn. 22.65m: Clay seam. 22.67m: Crushed seam. 23.13m-23.16m: Clay seam, 45 degrees. 24.90m: Clay seam.	A (20.50m) D (20.55m)						
22				ARGILLITE (DCf) MA: Green to grey, fine grained, foliated, medium to high strength. Quartz veining throughout, some clast supported conglomerate (argillite), fine to coarse grained, sub-rounded to sub- angular. Js: 5-20° (6-8/m), Sm, Tl, Cn, Fe Stn. Js: 30-45° (1-3/m), Sm, Tl, Cn.													D (22.20m) A (22.21m)
23																	
24			100 (89)	From 24.1m: Becoming pale green to grey.	MA					Is(50)=0.66 MPa Is(50)=0.80 MPa Is(50)=0.02 MPa Is(50)=0.15 MPa Is(50)=0.36 MPa Is(50)=0.27 MPa Is(50)=0.08 MPa Is(50)=0.45 MPa	D (23.67m) A (23.68m) D (24.50m) A (24.52m) D (26.05m) A (26.06m) D (27.05m) A (27.06m)						
25																	
26																	
27	-8.93		100	Borehole completed at 27.13 m													
28																	
29																	

REMARKS:

LOGGED BY

H. Menon

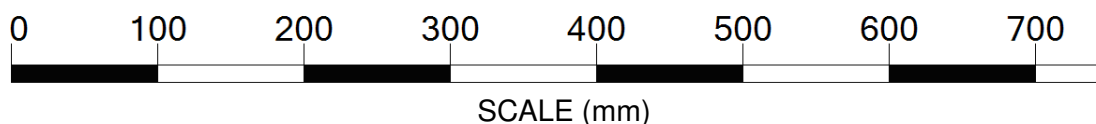
REVIEWED BY

S. Foley

CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Centenary Bridge Upgrade - Geotechnical Investigation		
Project No.	FG18012	Date	20-25/02/2019
Borehole No.	BH11	Reference No.	H13331
Location	27 Vidgen Lane, Kenmore	Start Depth (m)	8.10
Submitted By	M. Hayes	Finish Depth (m)	27.18



CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Centenary Bridge Upgrade - Geotechnical Investigation		
Project No.	FG18012	Date	20-25/02/2019
Borehole No.	BH11	Reference No.	H13331
Location	27 Vidgen Lane, Kenmore	Start Depth (m)	8.10
Submitted By	M. Hayes	Finish Depth (m)	27.18

