

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) 2020, 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://qgd.org.au/>



**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **BH8**

Sheet 1 of 3

REFERENCE No **H12978**

PROJECT **Beames Brook Bridge Replacement Project**

LOCATION _____ COORDINATES **324445.4 E; 8022518.8 N**

PROJECT No **FG6513** SURFACE RL **5.45m** PLUNGE **90°** DATE STARTED **14/11/2017** GRID DATUM **MGA94 Z54K**

JOB No **23/78A/14** HEIGHT DATUM **AHD** BEARING **°** DATE COMPLETED **15/11/2017** DRILLER **Saxon Drilling**

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH										DEFECT SPACING										ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
								EH	VH	H	M	J	VL	EL	EC	VC	O	M	W	VW	EW									
	5.15				Gravelly SAND with Silt (Fill) Red brown, dry. Fine to coarse grained sand, rounded to sub- rounded. Fine to medium grained gravel.		(SP)																					7, 7, 8 N=15	SPT	
1				A	Silty CLAY (Alluvium) Brown and red brown, dry, very stiff. Medium plasticity. Trace fine to medium grained sand, sub-rounded.																							7, 9, 11 N=20	SPT	
2				B	From 2.0m: Becomes stiff. Trace fine to medium gravel, subrounded to subangular.																									
3				C	From 3.0m: Becomes pale grey brown, very stiff.																								3, 3, 5 N=8	SPT
4				D			(CI)																						6, 6, 10 N=16	SPT
5				E	From 4.5m: Becoming with Sand																								4, 10, 13 N=23	SPT
6				F																									6, 10, 12 N=22	SPT
	-0.95			G	Well Cemented GRAVEL (Alluvium) Grey and brown, medium to coarse gravel clasts in a fine grained calcareous cement, medium to high strength. Gravel is subangular to subrounded.																							6.50m-6.77m: Clayey SAND layer, Calcareous cement.	23, 25/120mm hb	SPT
7			(0)																										Is(50)=1.30 MPa Is(50)=2.36 MPa 15/100mm hb	A (7.05m) D (7.06m)
8			(0)																											
9			33 (0)																											
	-4.05		27																											
	-4.55			K	Silty CLAY (Alluvium) (See over)		(CH)																						10, 18, 25 N=43	SPT

Continued on next sheet

REMARKS:

LOGGED BY

REVIEWED BY

R. Bruce

S. Foley



**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **BH8**

Sheet 2 of 3

REFERENCE No **H12978**

PROJECT **Beames Brook Bridge Replacement Project**

LOCATION _____ COORDINATES **324445.4 E; 8022518.8 N**

PROJECT No **FG6513** SURFACE RL **5.45m** PLUNGE **90°** DATE STARTED **14/11/2017** GRID DATUM **MGA94 Z54K**

JOB No **23/78A/14** HEIGHT DATUM **AHD** BEARING **°** DATE COMPLETED **15/11/2017** DRILLER **Saxon Drilling**

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%) % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH _EH _VH _H _M _J _VI _EL	DEFECT SPACING _EC _VC _C _M _W _VW _EW	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
11				L	Silty CLAY (Alluvium) Cont'd. Pale grey mottled yellow brown, dry, hard. High plasticity. Trace fine to coarse grained sand. Very thin silcrete layers.		(CH)				12, 18, 26 N=44	SPT	
12				M								13, 18, 23 N=41	SPT
13				N								10, 15, 19 N=34	SPT
14	-8.55			O								14, 20, 23 N=43	SPT
15				P	Sandy CLAY (Alluvium) Pale brown mottled yellow brown, moist, hard. Fine to coarse grained sand. Medium to high plasticity.		(CI)				7, 17, 24 N=41	SPT	
16	-10.45			Q								15, 29, 30/80mm hb	SPT
17			(100)		SILTSTONE MW: Pale grey mottled orange and red brown, fine grained, mainly high strength. - Strong iron alteration throughout. - J's: 0°-15° (1/m), Pl/Un/Ro, TI-OP, FeSt.		MW			UCS=16.50 MPa Is(50)=2.80 MPa Is(50)=2.83 MPa	(16.12m) A (16.33m) D (16.34m)		
18													
19												Is(50)=1.99 MPa Is(50)=0.39 MPa	A (18.58m) D (18.59m)

Continued on next sheet

REMARKS:

LOGGED BY

REVIEWED BY

R. Bruce

S. Foley

**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **BH8**

Sheet 3 of 3

REFERENCE No **H12978**

PROJECT	Beames Brook Bridge Replacement Project
---------	---

LOCATION	COORDINATES 324445.4 E; 8022518.8 N
----------	-------------------------------------

PROJECT No	FG6513	SURFACE RL	5.45m	PLUNGE	90°	DATE STARTED	14/11/2017	GRID DATUM	MGA94 Z54K
------------	--------	------------	-------	--------	-----	--------------	------------	------------	------------

JOB No	23/78A/14	HEIGHT DATUM AHD	BEARING °	DATE COMPLETED 15/11/2017	DRILLER Saxon Drilling
--------	-----------	------------------	-----------	---------------------------	------------------------

REMARKS:

LOGGED BY

REVIEWED BY

R. Bruce

S. Foley