COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the <u>Creative Commons Attribution 4.0 Licence</u> (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/



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No ______BH09____

SHEET ___1__ of __2__

REFERENCE No ______

PROJECT		EIGHT MILE CREEK BRIDGE FOUNDATION INVESTIGATION												
LOCATION		<u>Abu</u>	tment B	<u>LH</u>	<u>S (Ch.83953.775)</u>					OORDINATE	ORDINATES <u>260886.0 E; 7380691.7 N</u>			
PROJECT No		_FG5934			SURFACE R.L 7.36m_ PLUNGE		DATE STARTED _13/8/11 GF					RID DATUM MGA94 Zone 56		
JOB No					HEIGHT DATUM <u>AHD</u> BEARING				13/8/	<u>11</u>				
DEPTH (m)	R.L. (m)	AUGER SASING WASH BORING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT STRENGTH ボンナマッシゴ	DEFECT SPACING (mm)	GRAPHIC LOG		DITIONAL DATA AND EST RESULTS		SAMPLES
0	7.36		REC %	0)	Clayey SAND (TOPSOIL)	-	(SC)				Based on F	Oriller's log only		
Ė	7.06				Pale brown, moist to dry, loose.		(30)		<u> </u>	 	Dased on L			-
- - - - - 1					Fine grained; some tree roots. Silty CLAY (ALLUVIAL) Dark grey- to black, moist, stiff. High to medium plasticity; some tree roots.		(CI- CH)				— Based on D	Oriller's log only		- - - - - - -
E	5.86			Α	SILTSTONE	-						5,6,30/10		SPT -
710/201111:32				В	Fine grained, thinly laminated sedimentary rock XW: Generally exhibits the engineering properties of mottled yellow to brown grey, moist, hard, clayey silt. Low plasticity; some HW rock kernels.		xw					24,24,30/	N>50 20mm	SPI -
PT Tool gINt Add-In 11					Gradually grading into grey brown HW rock							14,30/	N>50	- - - - - -
tgel CF	3.56	4	(44)	С	with depth.			<u> </u>		L			N>50	SPT -
CREEK BH7 TO BH10.GPJ < <drawingfile>> Datgel CPT Tool gINt Add-In 11/10/201111:32</drawingfile>			(44)		HW: Grey brown, thinly laminated, low strength. Defects: - Lamination partings @ 20-30° (5/m) - Joints @ 80-90° (1/m)		HW				- Numerous	Us, Lam, Ir, T $Is(50) = 0.2$ $Is(50) = 0.4$		0 - x -
H10.G	2.41	- 1			Defect surfaces are planar, rough, tight.			بالتراث با	<u> </u>	ļ	 			-
CREEK BH7 TO BH	2.06		100 (0) 100 (0)		XW: Generally exhibits the engineering properties of yellow to grey brown, moist, hard, clayey silt. Low plasticity; some rock kernels.		MW				≕— Ca band			-
-6			100		SANDSTONE						CLy seam,	35°, 20mm		-
3Y FG5934 - EIGH	0.40		(0)		Fine grained, mainly massive to laminated, poorly cemented sedimentary rock HW: Grey brown, fine grained, massive, low to medium strength.		HW				— CLy seam, — CLy seam,			- - - - -
010HTH-	0.46				Defects: - Lamination partings @ 15-25° (15/m) - Joints @ 50° (1/m)						 	——— Ts(50) = 0.9	2MPa	0 _
100			100		Defect surfaces are irregular, rough, tight.							Is(50) = 0.4	6MPa	х _
QLD_DMR_LIB_01A.GLB_L0g_A_ENGINEERING BOREHOLE_LOG W LITHOLOGY FG5534 - EIGHT MILE			100		HW sandstone / siltstone interbeds from 5.90 to 6.90m. MW: Grey to pale brown, fine grained, laminated, medium high strength.		MW				CLy seams 0°, 15-20m	Is(50) = 0.2	7MPa	x
GLB Log A ENGI			100		Defects: - Lamination partings @ 0-15° (15- 30/m) - Joints @ 15-30° (8/m) - Joints @ 40-50° (3/m)		HW MW				CLy seams 0°, 15-20m	with HW rock particles, m	24 3	- - - - -
LD DMR LIB 01A.			(23)		Defect surfaces are planar to irregular, rough, tight and open, iron stained.		HW MW					= 2.38t/m ³ ; WD = 2.5 = 5.6%; Soil UCS=12 Is(50) = 0.3	21kPa	0 -
		Failu	res may h	ave	I been taken place along pre-existing defect plains			L.,				LOGGE	BY	
ŀ	VEINIAKK!										- -	MS / A		



QLD DMR LIB 01A.GLB Log A ENGINEERING BOREHOLE LOG W LITHOLOGY FG5934 - EIGHT MILE CREEK BH7 TO BH10.GPJ <<DrawnigFile>> Datalel CPT Tool gilli Add-in 1/1/10/2011 11:32

ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No _______ BH09 ___ SHEET ____2 __ of ___2 __ REFERENCE No ______ __

PROJECT LOCATION					EEK BRIDGE FOUNDATION INVESTIGATION			 ORDINATES <u>260886.0 E; 7380691.</u>	 7 N				
					<u> S (Ch.83953.775)</u> SURFACE R.L. <u>7.36m</u> PLUNGE								
JOB					HEIGHT DATUM <u>AHD</u> BEARING								
	R.L.		I DOD				 	INTACT DEFECT					
(F	(m)	AUGER CASING WASH BORING	() %		MATERIAL		<u>_</u>	STRENGTH SPACING	90	ADDITIONAL DATA			
DEPTH (m)		BOR		ш	MATERIAL	OGY	FRIN	(mm)	IIC FC	AND	ES		
$\overline{}$		ASINC ASINC ASH	CORE	SAMPLE	DESCRIPTION	LITHOLOGY	USC	STRENGTH SPACING (mm)	GRAPHIC LOG	TEST RESULTS	SAMPLES		
_10	-2.64	40×0	REC %	S	SANDSTONE	_	≥ןכן		Ø	CLy seams with HW rock particles,	o ⊢ _		
-					MW: (Cont'd)					10°, 15-40mm			
_										CLy seams with HW rock particles,	=		
			100				MW			,	_		
- -11			(12)							Is(50) = 1.16MPa	x -		
- - - -										Is(50) = 1.42MPa Is(50) = 2.60MPa	o - x -		
-	-4.34		100							— CLy / silt seam			
- - -12					Borehole terminated at 11.7m						-		
12 											_		
								1:::::::]		
											_		
-								: : : : : + : : : : : : : : : : : : :			-		
13 											_		
-								: : : : : : : : : : : : : : : : : : :			-		
											-		
-								1::::::::::::::::::::::::::::::::::::::			-		
14 											_		
-											-		
											-		
- - 15											-		
15 								: : : : :]		
-								1::::::::::::::::::::::::::::::::::::::					
-								: : : : : : : : : : : : : : : : : : :			-		
_ 16]		
- 1											-		
								: : : : : <u>‡</u> : : : : :			-		
-								: : : : :			-		
- 17								I : : : : : : I : : : : : :]		
-								: : : : : : : : : : : : : : : : : : :			=		
ᅵ													
- 18								::::::::::::::::::::::::::::::::::::::			-		
-]		
-											-		
Εl													
- 19											-		
<u> </u>								:::::::					
<u> </u>													
								: : : : : : : : : : : : : : : : : : :					
20		o Eaile	roe may b	20/2	poon taken place along pro evicting defect plains			<u> </u>		LOGGED BY			
REMARKS Failures may have been taken place along pre-existing defect plains								MS / AD					

Project: **EIGHT MILE CREEK BRIDGE (ABUTMENT B)**

Borehole No: **BH9**Start Depth: 3.74m
Finish Depth: 11.70m
Project No: FG5934

H No:



