ENGINEERING BOREHOLE LOG

Queensland Government

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

BOREHOLE No **BH04**
SHEET 1 of 2
REFERENCE No

PROJECT EIGHT MILE CREEK BRIDGE FOUNDATION INVESTIGATION
LOCATION Pier 1 - RHS (Ch.83888.000) COORDINATES 260941.5 E; 7380650.9 N
PROJECT No FG5934 SURFACE R.L. 6.57m PLUNGE DATE STARTED 15/8/11 GRID DATUM MGA94 Zone 56
JOB No 258/10E/1 HEIGHT DATUM AHD BEARING DATE COMPLETED 15/8/11 DRILLER Saxon Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
0	6.57				**Silty SAND (FILL)** Pale brown to yellow, moist, loose Fine to medium grained sand; some gravel.		(SM)					Upper area based on Driller's log only.		
1	5.27				**Sandy Silty CLAY (ALLUVIAL)** Dark grey, moist to wet, firm to stiff becoming soft with depth. Medium to high plasticity; tree roots; thin layers of silty clay of high plasticity.		(CI)					2,4,4 N=8	A	SPT
2														
3				B								2,1,1 N=2	B	SPT
	2.82				**Silty SAND (ALLUVIAL)** Brown, wet, loose. Fine to coarse grained quartzitic sand.										
4							(SM)					2,3,3 N=6	C	SPT
5														
	0.97				**SILTSTONE** **Fine grained, thinly laminated sedimentary rock** **XW:** Generally exhibits the engineering properties of mottled brown to grey yellow, moist, hard, clayey silt. Low plasticity.		XW					20,30/70mm N>50	D	SPT
6														
7	-0.53		(0)	E								HB N>50; No recovery	E	SPT
			100		**SANDSTONE** **Fine grained, mainly massive, poorly cemented sedimentary rock** **MW:** Grey to brown, fine grained, massive, medium to mainly high strength.		HW					Thin Ca band, 30°, 5mm	Is(50) = 1.23MPa	x
			(0)										Is(50) = 1.22MPa	x
													Is(50) = 0.68MPa	o
8			100		Defects: - Lamination partings @ 10-20° (4/m) - Joints @ 20-30° (5-8/m)							Several CLy seams, 20°, 10-15mm		
			(0)											
			62		- Joints @ 30-45° (4/m)							Core loss		
			(0)		- Joints @ 75-80° (1/m)		MW							
9					Defect surfaces are generally planar, rough, open, iron stained.								Is(50) = 1.46MPa	o
					Numerous irregular joints and some weathered joint surfaces.								Is(50) = 2.46MPa	x
			100											
			(8)		Some thin siltstone interbeds.									
10													Is(50) = 3.18MPa	x

REMARKS Failures may have been taken place along pre-existing defect plains

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QLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5934 - EIGHT MILE CREEK BH1 TO BH6.GPJ <<DrawingFile>> Datgel CPT Tool gINt Add-In 11/10/2011 11:29

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10	-3.43				**SANDSTONE** **MW:** (Cont'd)							Is(50) = 1.92MPa		o
								MW				Is(50) = 1.47MPa		x
			100									Is(50) = 0.90MPa		o
11			(0)									CLy seam, 30°, 20mm		
								HW						
			100									Is(50) = 0.52MPa		x
			(0)											
12			100									Is(50) = 2.06MPa		x
			(0)					MW				Is(50) = 1.94MPa		o
												CLy seam, 10°, 25mm		
			100									Is(50) = 2.67MPa		x
			(0)											
13												CLy seam, 25°, 10mm		
			100					HW						
			(40)									CLy seam, 20°, 25mm		
14	-7.43		100					MW						
					Borehole terminated at 14m									
15														
16														
17														
18														
19														
20														

QLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5934 - EIGHT MILE CREEK BH1 TO BH6.GPJ <<DrawingFile>> Datgel CPT Tool gINt Add-In 11/10/2011 11:29

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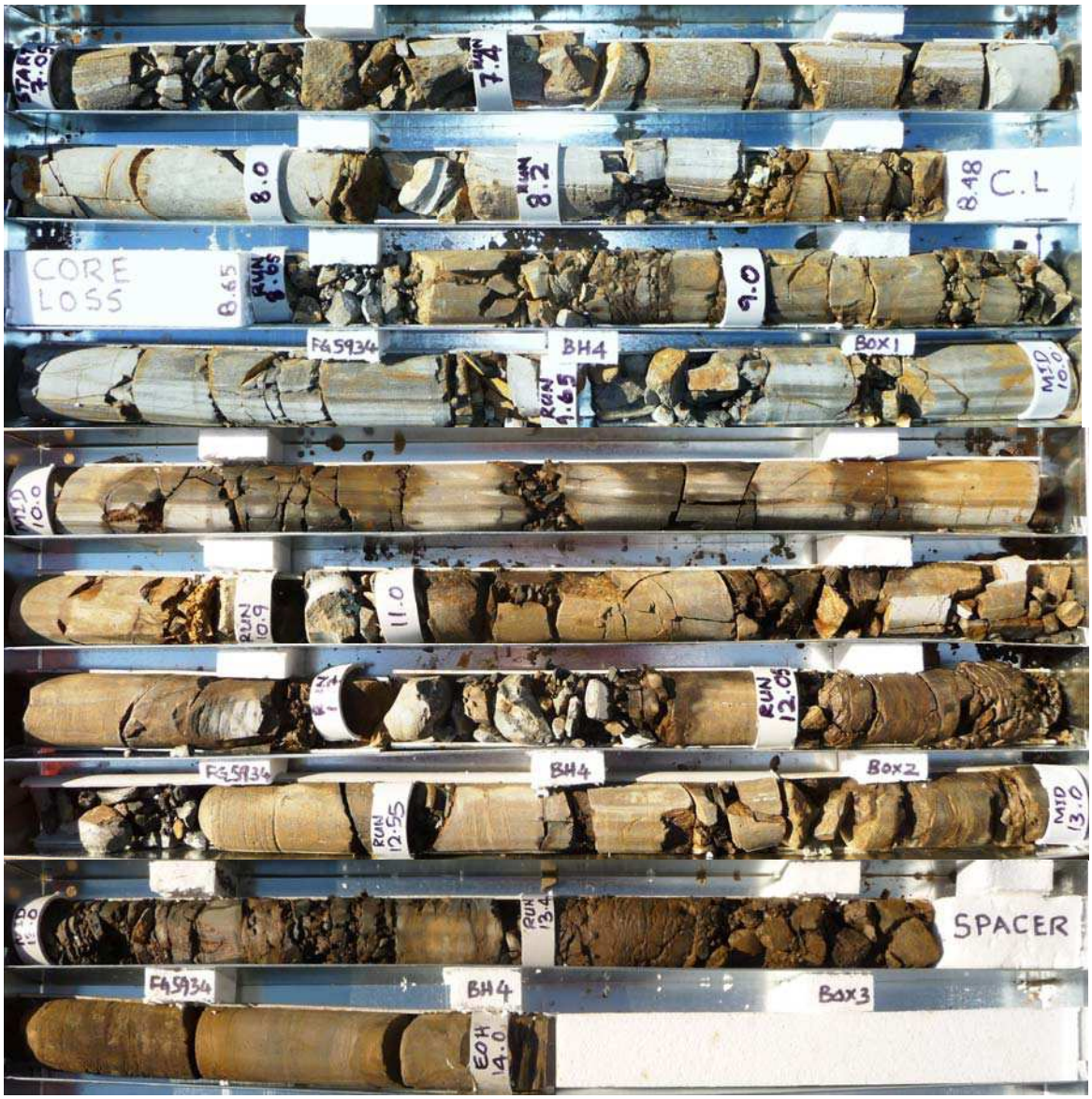
Project: **EIGHT MILE CREEK BRIDGE (PIER 1)**

Borehole No: **BH4**

Start Depth: 7.05m
Finish Depth: 14.00m
Project No: FG5934
H No:



0 100 200 300 400 500 600mm

SCALE 1:5

F:GEOT043/1