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/



QLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG WLITHOLOGY TOWNSVILLE RING ROAD 4 STONY CREEK.GPJ «ChawingFile>> Datgel CPT Tool glNt Add-In 17/10/2013 11:55

ENGINEERINGBOREHOLE LOG

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

BOREHOLE No	BH303
SHEET	_1_ of _3_
REFERENCE No	11481

PRO	IECT	<u>_To</u>	<u>wns</u>	<u>ville R</u>	ing F	Road Section 4								
LOCA	ATION	_Stc	ny	<u>Creek</u>	Brid	ge					COORD	INATES 464706.5 E; 78	37 <u>1514.3</u>	<u>N</u>
PRO	IECT No	<u>FG</u>	<u>60</u> 2	<u>20</u>		SURFACE R.L. <u>12.24m</u> PLUNGE _		_	-	DATE STARTED	18/4/13	GRID DATUM <u>GDA</u>	94	
JOB I	No	<u> 268</u>	3/ <u>1</u> (<u> </u>		HEIGHT DATUM <u>AHD</u> BEARING _		_	-	DATE COMPLETED	18/4/13	DRILLER Saxor	<u>Drilling</u>	
o DEPTH (m)	R.L. (m)	AÚGER CASING WASH BORING		RQD ()% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	ГІТНОГОСУ	nsc	WEATHERING	INTACT DEFECT STRENGTH SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
- - - - - - - - - - - - - - - - - - -	11.94				A	Sandy CLAY (TOPSOIL) Dark brown, moist, soft to firm. Low to medium plasticity. Some tree roots. Silty Sandy CLAY Mottled grey, brown, moist, stiff to very stiff. Medium to high plasticity. Becoming sandy clay of low plasticity.		(0	CI-				2,3,9 N=12	SPT -
-22	9.24				С			Ċ	H)				4,8,11 N=19	SPT -
						Sandy SILT Grey, brown, moist, hard. Low plasticity. Fine grained sand. High content of silt in some places.						14,21,30/	10mm N>50	SPT -
					E			(M	/IL)			16,29,30 14,25,30/	N>50	SPT -
- 6 	5.74				G	Clayey SAND Pale grey, pale brown, moist, generally dense. Mainly fine to medium grained sand.						30/130mm,30/75r	 nm,HB : N>50 :	SPT -
- 8 	2.24				Н			(S	SC)			10),19,28 N=47	SPT -
R	EMARK	s						_	_			LOGGE		
		_						_	_			MS	1	



QLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG WLITHOLOGY TOWNSVILLE RING ROAD 4 STONY CREEK.GPJ «ChawingFile>> Datgel CPT Tool glNt Add-In 17/10/2013 11:55

ENGINEERINGBOREHOLE LOG

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

BOREHOLE No	BH303
SHEET	_2_ of _3_
REFERENCE No	11481

PROJECT	Townsville Rin	ng Road Section 4					
LOCATION	Stony Creek E	Bridge			COORDII	NATES <u>464706.5 E; 7871514.3 I</u>	<u>N</u>
PROJECT No	FG6020	SURFACE R.L. <u>_ 12.24m</u> PLUNGE _		DATE STARTED	18/4/13	GRID DATUM <u>GDA 94</u>	
JOB No	268/10M/5	HEIGHT DATUM <u>AHD</u> BEARING _		DATE COMPLETED	18/4/13	DRILLER <u>Saxon Drilling</u>	
R.L. (m)	A GARGERY CANGERY CASSING CORE E DRILLING CORE E CASSING CORE CORE CORE CORE CORE CORE	MATERIAL DESCRIPTION	LITHOLOGY USC WEATHERING	INTACT DEFECT STRENGTH SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
- - -		Clayey SAND (Cont'd)				11 16 20	SPT]
- - - - - - - - - - - - - - - - - - -							- - - - - - - - -
-12		K				10,15,23 N=38	SPT -
13 14		Becoming medium grained sand.				12,15,21 N=36	SPT -
		M	(SC			8,11,21 N=32	SPT :
16 17 		Becoming medium dense with medium to coarse grained sand.				9,12,16 N=28	SPT -
		P Becoming very dense with medium to coarse grained sand.				13,23,30/130mm N>50	SPT -
20 -7.76		Q				N250	SPT -
REMARKS	3					LOGGED BY MS	



QLD_DMR_LIB_01A GLB Log A_ENGINEERING BOREHOLE LOG WLITHOLOGY TOWNSYILLE RING ROAD 4 STONY CREEK GPJ «ChawingFile>> Datgel CPT Tool glNt Add-in 17/10/2013 11:55

ENGINEERING BOREHOLE LOG

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

BOREHOLE No ___BH303___

SHEET __3__ of __3__

REFERENCE No ___11481___

PRO	JECT	_Towi	<u>nsville R</u>	ing F	Road Section 4						
LOC	ATION	_Ston	y Creek	<u>Brid</u>	ge					CC	COORDINATES 464706.5 E; 7871514.3 N
PRO	JECT No	_F <u>G</u> 6	020		SURFACE R.L. <u>12.24m</u> PLUNGE		_	-	DATE STARTED _	18/4/	4/13 GRID DATUM <u>GDA 94</u>
JOB	No	<u>268/</u>	10M/5		HEIGHT DATUM <u>AHD</u> BEARING			-	DATE COMPLETED _	18/4/	4/13 DRILLER <u>Saxon Drilling</u>
OEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	nsc	WEATHERING	INTACT DEFECT STRENGTH SPACING (mm) **TYNAMIC OF THE PROPERTY	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS RESULTS
-	-7.86				VOLCANIC BRECCIA	7.7.7			· · · · · · <u>+</u> · · · · ·		
- - - - - - - 21	-8.86		(25)	R	Pyroclastic rock consisting of angular fragments embedded in a finer grained matrix. XW: Generally exhibits the engineering properties of red, brown, moist to dry, very dense silty sand.	++++++		w			30/50mm,HB N>50
-			(- /		Medium to coarse grained sand. Some	[+]	Н	IW			Is(50) = 0.09MPa o
- - - - - 22				\times	HW rock fragments. HW: Grey, brown, pink, medium to coarse grained, massive, mainly low strength.	+ + + + + + +	X	w			
-			75 (0)		Defects:		Н	IW			
-		ł	100		 Irregular joints (>5/m) Joints are generally irregular, rough, weathered, open, clay filled. 	- + - + - +	X	w			
23 			(68)		From 21.48 - 21.95m: XW, very low strength. From 22.6 - 23.1m: XW, very low strength.	+					Is(50) = 0.13MPa o
-			(40)		Trom 22.0 - 25. mi. Avv, very low suchgui.	[+]					
-			100 (44)	\vdash		+ - +	Н	IW			
- 24 -			100								
-	-12.11		(65)		MW: Brown, pink, medium to coarse	+		-			<u>ls(50) = 0.35MPa</u>
- - - - - 25					grained, massive to fractured, medium to high strength. Some zones of low strength. Some HW bands with low strength.	+ + + + + + + + + + + + + + + + + + + +					Is(50) = 0.69MPa
- - -			100 (43)		Defects: - Joints @ 50-60° (2/m)	+	М	1W			
- - - -26					- Joints @ 70° (1/m) - Irregular Joints (1/m) Defect surfaces are generally planar or	+ + +					Is(50) = 0.39MPa o - Is(50) = 0.76MPa o -
	-14.11		100		irregular, rough, weathered, open, clayey coated.	[+]					
					Borehole terminated at 26.33m						
30									<u>:::::</u>		
R	EMARK	S					_ _	_			LOGGED BY MS

CORE PHOTO LOG

DEPARTMENT OF TRANSPORT & MAIN ROADS Geotechnical Section 35 Butterfield Street, HERSTON Qld 4006 Phone 07 3066 3336



Department of Transport and Main Roads

Project Name	Townsville Ring Road Section 4		
Project No	FG 6020	Date	18/04/13
Borehole No	BH 303	TMR H No	11481
Location	Stony Creek Bridge	Start Depth (m)	21.10
Detail	Pier 1 (Right)	Finish Depth (m)	26.33
Chainage		Submitted By	BW
Remarks			

