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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

ENGINEERINGBOREHOLE LOG

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

BOREHOLE No	BH306
SHEET	_1_ of _3_
REFERENCE No	11484

PRO.	JECT	_T	<u>owr</u>	<u>nsville</u> R	ling <u>F</u>	Road Section 4										
						ge									5. <u>7 E; 7871539.3</u>	
PRO.	JECT No					SURFACE R.L. <u>12.09m</u>								DATUM	GDA 94	
JOB	No	_26	<u> </u>	10M/5		HEIGHT DATUM _AHD	BEARING _				DATE COMPLETED _	<u> 17/4/</u>	<u>13 </u>	DRILLER	Saxon Drilling	
O DEPTH (m)	R.L. (m)	AÙGER CASING	WASH BORING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTIO		LITHOLOGY	nsc	WEATHERING	INTACT DEFECT SPACING (mm)	GRAPHIC LOG		AND ST RESU		SAMPLES
-				1120 70		Silty CLAY (TOPSOIL)		7 <u>1 1</u> V.								-
- - - - - - - 1 -	11.79				Α	Dark brown, moist soft. Low to medium plasticity. So Silty Sandy CLAY Brown, dark brown, moist, fire Medium plasticity.			(C	:1)					1,2,3 N=5	SPT =
- - - - - 2 -	9.79				В										2,2,4 N=6	SPT -
- - - - - - - 3					С	Silty SAND Pale grey, pale yellow, brown dense. Fine grained sand. Trace of grained sand gravel. So	coarse				+ + + + + + + + + + + + + + + + + + + +			17	,30/120mm,29 N>50	SPT -
- - - - - - - -4					D	calcareous white material.			(SI	M)				15	,28,30/110mm N>50	SPT -
- - - - - - - - - - - -					E	Becoming medium to coarse	grained sand				+			•	15,27,30/110m N>50	SPT -
- - - - - - - - -	6.09				F						+		2	20,30/120r - — — —	nm,30/100mm N>50	SPT -
	2.00				G	Sandy SILT Pale grey, pale yellow, brown Low plasticity. Thin clay sear			(M	L)				1	6,28,30/50mm N>50 6,15,29 N=44	SPT -
10 R	2.09 EMARK	S 2	6m :	awav tow	uards	South from its original location		<u> [].[].[</u>			<u> </u>			I	OGGED BY	
r		.u <u>=:</u> _	_						_	_				•	MS	



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	BH306
SHEET	_2_ of _3_
REFERENCE No	11484

PROJ	ECT	<u>Towr</u>	<u>nsville R</u>	ing F	Road Section 4						
LOCA	DCATION <u>Stony Creek Bridge</u> COORDINATES <u>464695.7 E; 7871539.3 N</u>										
PROJ	ECT No	_FG60	020		SURFACE R.L. 12.09m PLUNGE			DATE STARTED _	16/4/1	3 GRID DATUM GDA 94	
JOB N	lo	<u>268/</u>	10M/5		HEIGHT DATUM <u>AHD</u> BEARING			DATE COMPLETED _	<u> 17/4/1</u>	3 DRILLER Saxon Drilling	
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING		SAMPLE	MATERIAL DESCRIPTION	ГІТНОГОСУ	USC	INTACT DEFECT STRENGTH SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
-	2.00			J	Clayey SAND Pale brown, pale grey, moist, very dense.					14,22,30/100mm N>50	SPT -
- - - - - - 11 - - -					Fine to coarse grained sand. Some white calcareous material.			± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±		40.00.00/20	-
- 12 - 12 				К						12,22,30/90mm N>50	SPT -
- 10 				L	Becoming dense silty sand.					16,19,27 N=46	SPT -
- 15 - 15 15 				M	14.50-15.00m: Lenses of pale grey, brown, moist, hard sandy silt.		(SC)			10,13,20 N=33	SPT -
- 17				N	Becoming medium to coarse grained sand.					16,16,22 N=38	SPT -
- 18 - 18 				P	Becoming very dense.					12,21,30/130mm N>50	SPT
- - - - - - - - 20	-7.91			Q				‡ ‡		10,17,30 N=47	SPT -
RE	EMARKS	<u>2.6m</u>	away tow	ards	South from its original location					LOGGED BY	
										MS	



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	BH306
SHEET	_3_ of _3_
REFERENCE No	11484

PRO	JECT					Road Section 4							
						ge						OORDINATES <u>464695.7 E; 7871539.3 N</u>	
PRO	JECT No					SURFACE R.L. <u>12.09m</u> PLUNGE							
JOB	No	_268	3/ <u>10</u> 1	<u>M/5</u> _		HEIGHT DATUM <u>AHD</u> BEARING				DATE COMPLETED _	<u> 17/4/</u>	DRILLER Saxon Drilling	
DEPTH (m)	R.L. (m)	AÜGER CASING WASH BORING	RILLING	RQD)% CORE EC %	SAMPLE	MATERIAL DESCRIPTION	ГІТНОГОСУ	USC	WEATHERING	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	TESTS
- 21	-9.41					Clayey SILT (Residual) Pale green, pale yellow, moist to dry, hard. Low plasticity.		(M				15,17,27 N=44	- - - PT - - - -
- 22						TUFF Fine to medium grained, pyroclastic rock. XW: Generally exhibits the engineering properties of grey / brown, moist, hard, clayey sandy silt.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	X	w			18,22,22 N=44	PT -
- - - - - - - - 24	-12.11				Т	Becoming HW at 23.9m.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	H	w	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±		N>50; Last drive HBX30	PT -
				(0) 100		HW: Grey, brown, fine to medium grained, massive to fractured, mainly very	(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					1 - 1 - 1 - 1 = 0.69 MPa	。
- - - - - - - - - - - - - - - - - - -				(65) 100 (4)		low strength. Defects: - Joints @ 30° (2/m) - Joints @ 45° (2/m) - Joints @ 60° (3/m) - Joints @ 70° - 80° (2/m) - Irregular Joints (3/m) Defect surfaces are generally planar or irregular, rough, weathered, open, clayey	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	H	w			Is(50) = 0.04MPa	0 0 0 0
- - - - - - - - - - - - - - - - - - -	-15.31			100 (0)		coated.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					Is(50) = 0.04MPa	0 -
-	-15.79			(0)		VOLCANIC BRECCIA Pyroclastic rock consisting of angular fragments embedded in a finer grained	+	M	w				-
- 28 						matrix. MW: Orange / pink, dark grey, medium to coarse grained, massive to fractured, medium strength. Joints are mainly planar or irregular, rough, open, clayey coated. Borehole terminated at 27.88m							
R	EMARK	S <u>2.6r</u> — —	<u>n aw</u>	ay tow	ards	South from its original location	 	_ _	_ ·	 		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 Project No Project N	D :	T			
Borehole No BH 306 TMR H No 11484 Location Stony Creek Bridge Start Depth (m) 23.90 Detail Pier 2 (Left) Finish Depth (m) 27.88 Chainage Remarks Core 1035			tion 4	Dete	10/04/10
Location Stony Creek Bridge Start Depth (m) 23.90 Detail Pier 2 (Left) Finish Depth (m) 27.88 Chainage Remarks Core 1035 3.300 Core 1035 3.3					
Detail Pier 2 (Left) Finish Depth (m) 27.88 Chainage Remarks Core 1035 Submitted By BW					
Chainage Remarks Submitted By BW Core 1035 Signature 1035 Signa					
Remarks CORE 1035 STORE 1035 STO		Pier 2 (Leπ)			
CORE 10 35 3 300 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20				Submitted By	BAA
	CORE LAIS	1035 2-300 2-3	250	Z7.88 END END	O STATE OF THE PARTY OF THE PAR
0 100 200 300 400 500 600 700	0 100	200 300	400	500 600	700