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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH407  
SHEET 1 of 3  
REFERENCE No H11495

PROJECT Townsville Ring Road Section 4  
LOCATION Geaney Lane Overpass COORDINATES 464720.2 E; 7871710.1 N  
PROJECT No FG6020 SURFACE R.L. 13.24m PLUNGE \_\_\_\_\_ DATE STARTED 1/5/13 GRID DATUM GDA 94  
JOB No 268/10M/5 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 2/5/13 DRILLER Cairns Drilling

DEPTH (m)	R.L. (m)	CASING ROCK ROLLER WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	13.24					<b>FILL</b> Based on drillers log.						Non Destructive Drilling Techniques Used.	
1													
2	11.24					<b>Clayey SAND</b> Brown, moist, dense to very dense. Fine to medium grained sand.							
3					C		(SC)					8,16,25 N=41	SPT
4	9.24				D	Becoming very dense.						23,30/80 N>50	SPT
5					E	<b>Silty SAND</b> Pale brown to brown, moist, very dense. Fine to medium grained sand.						30/110 N>50	SPT
6					F							15,30/145 N>50	SPT
7							(SM)						
8					G						14/06/13	18,22,30/120 N>50	SPT
9					H	Sand becoming medium to coarse grained.						15,25,30/120 N>50	SPT
10													

REMARKS Standpipe Piezometer Installed

LOGGED BY  
VP

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10	3.24													
11					J	Silty SAND (Cont'd) Becoming dense.							12,18,25 N=43	SPT
12					K								10,14,20 N=34	SPT
13							(SM)							
14					L	Some clayey sand.							10,13,26 N=39	SPT
15					M								12,14,20 N=34	SPT
16	-2.76													
17						<b>VOLCANIC BRECCIA</b> Pyroclastic rock consisting of angular fragments embedded in a finer grained matrix. HW: Pale pink, red brown, medium to coarse grained, massive, generally very low strength. XW in part which exhibits the engineering properties of a Clayey Sand with some gravel.							30/20 Rockroller Technique Used from 16.5m. N>50; No Recovery	SPT
18									HW				30/40 N>50; No Recovery	SPT
19														
20	-6.56		(0)			MW: (See over).		MW					30/50 N>50	SPT

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VP



# CORE PHOTO LOG

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



Department of  
Transport and Main Roads

Project Name	<b>Townsville Ring Road Section 4</b>		
Project No	FG 6020	Date	02/05/13
Borehole No	BH 407	TMR H No	11495
Location	Geaney Lane Overpass	Start Depth (m)	19.50
Detail	Abutment B (Right)	Finish Depth (m)	25.70
Chainage		Submitted By	MS
Remarks			