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TMR JAN 15.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datgel CPT Tool glNt Add-In 04/03/2015 10:52

ENGINEERINGBOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No ____BH163 ___

SHEET ___1__ of __2__

REFERENCE No ___12104 ___

PROJECT LOCATION				Geotechnical Investigation - Stage 1 Overpass Abutment B; CH: 11000m;					- - -		 3 N
				SURFACE R.L. <u>15.90m</u> PLUNGE _							
JOB No				HEIGHT DATUM <u>AHD</u> BEARING			DATE COM	IPLETED 16	6/1 <u>2/</u> 1	4 DRILLER <u>ND Drilling Pt</u>	y Ltd
DEPTH (m)	ER ING SH BORING F DRILLING		SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	THERING	INTACT STRENGTH ボデェミュラゴ	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND	SAMPLES
0 15.9	AUGE CASIN WASH	CORE REC %	SAM		H	USC	ਜ਼ੑੑਫ਼ਜ਼ਫ਼ਸ਼ਖ਼ਜ਼	 	GRA	TEST RESULTS	SAMPLI
- - 0.30 15.6	<u>o</u> '			Sandy CLAY (TOPSOIL) Black, dry, friable. Medium plasticity. Fine to coarse grained sand. Roots & root fibres.	<u></u>	(CI)					-
 - - - - _{1,00} 14.9	0			Sandy CLAY (RESIDUAL) Red, orange, grey, dry, hard. High plasticity. Fine to coarse grained sand. Clayey SAND (RESIDUAL)		(CH)					- - - - -
- - - - - -			A	Grey, orange, dry, medium dense. Fine to coarse grained. 2.00-3.00m: Silty Sand band.						3,0,0 N=14	SPT =
						(SC)					-
-3 - - - - -			В							7,6,13 N=19	SPT -
- - - - 4. <u>9</u> 0 11.9	0										-
- - - - - - -			С	GRANODIORITE (Kgwu) XW: Recovered as white, grey, orange, moist, very stiff to hard, Sandy CLAY.	+ -					16,22,16 N=38	SPT =
- - - 5 - - -			D		+ -	xw				10,9,13 N=22	SPT
 - - - - - - - - -					+ + 						-
- - - - - - - - - - - - - - - - - - -	0		Е		+ + 					7,9,11 N=20	SPT :
		(100)		MICRODIORITE (Kgwu) SW: Grey, medium to coarse grained, massive, very high strength. Defects: - Js; 0°-30° (2/m); Pl/Ro, Tl, Cn; - Js; 30°-45° (1/m); Pl/Ro, Tl, Cn;	+ + + 					ls(50) = 9.48MPa UCS=194MPa	D _(7.17m) -
		100			+ + + + + + + + + + + + + + + + + + + +	sw				ls(50) = 4.54MPa ls(50) = 8.15MPa	A (8.64m) D (8.65m)
- -9 - - - - - -		(93)			+ + + + + + +					Is(50) = 12.66MPa Is(50) = 9.17MPa	D _(9.25m) - L _(9.25m) -
REMAR		<u>u - Wunda</u>	aru G	Granodiorite;	<u> </u>	<u> </u>				LOGGED BY ML	



TMR JAN 15.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datgel CPT Tool glNt Add-In 04/03/2015 10:52

ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH163

SHEET _2_ of _2_

REFERENCE No _12104___

PRO	JECT	_Mack	ay Ring F	Road_	Geotechnical Investigation - Stage 1										
LOC	ATION	_Ring_	Road Sta	<u>ge 2</u>	Overpass Abutment B; CH: 11000m;								ATES 721219		
PRO	JECT No	<u>FG61</u>	84		SURFACE R.L. <u>15</u> .90m PLUNGE _				DATE S	TARTED _	16/12	<u>2/14</u>	GRID DATUM	GDA 94 /MG/	<u> Zone 55</u>
JOB	No				HEIGHT DATUM <u>AHD</u> BEARING _				DATE COM	IPLETED _	16/12	2/14	DRILLER	ND Drilling Pt	y Ltd
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG		ADDITIONAL AND TEST RESU		SAMPLES TESTS
- - - - - -					MICRODIORITE (Kgwu) SW: (Cont'd) 10.00-10.40m: Medium to coarse grained.	+ + + +	-						ls(5	60) = 9.04MPa 60) = 7.66MPa 0) = 11.50MPa	D 4040
- 11 - - - - - - - - - -	3.90		100 (100)			+ + + + +	SI	W					ls(50	0) = 11.47MPa 0) = 12.84MPa 0) = 11.19MPa	ID (44 40m)
		s Kgwu		aru G	ranodiorite;									OGGED BY	
R	EMARK	S <u>Kgw</u> u	ı - Wunda	aru G	ranodiorite;		_	_				-	l	OGGED BY	
							_	_				-			

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



Project Name	Mackay – Rin	g Road		
Project No	FG6184		Date	16/12/14
Borehole No	BH163		TMR H No	12104
ocation	Ring Road Sta	age 2 Overpass	Start Depth (m)	6.8
Detail	Abutment B		Finish Depth (m)	12.0
Chainage	11000m		Submitted By	DC
Remarks				
-0.000	Control of the Contro			
20	1408.1133	84163	START 6.80	T.00
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	The second second			
		Scale (mm)	
100	200 300	Scale (mm 400 500) 600 700 800	900 1000