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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No   BH162    
 SHEET   1   of   2    
 REFERENCE No   12103  

PROJECT   Mackay Ring Road Geotechnical Investigation - Stage 1    
 LOCATION   Ring Road Stage 2 Overpass Abutment B; CH: 11000m;   COORDINATES   721207.4 E; 7663229.0 N    
 PROJECT No   FG6184   SURFACE R.L.   15.69m   PLUNGE            DATE STARTED   14/12/14   GRID DATUM   GDA 94 /MGA Zone 55    
 JOB No            HEIGHT DATUM   AHD   BEARING            DATE COMPLETED   15/12/14   DRILLER   ND 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											DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS							
									EH	VH	H	M	J	VL	EL	EC	VC	W	VV	WW	EW											
0	15.69					<b>Sandy CLAY (TOPSOIL)</b> Black, moist, firm. Medium plasticity. Fine to coarse grained sand. Some organics.	(Cl)																									
0.40	15.29					<b>Sandy CLAY (RESIDUAL)</b> Orange, red, grey, moist, stiff to very stiff. High Plasticity. Fine to coarse grained sand.	(Ch)																									
1.00	14.69				A	<b>Clayey SAND (RESIDUAL)</b> Orange, white, black, dry, medium dense. Fine to coarse grained.																									5.8,10 N=18	SPT
2					B																									6.8,11 N=19	SPT	
3					C	3.00m: Becoming dense.																								12,17,17 N=34	SPT	
4					D	4.00m: Becoming very dense.	(Sc)																							10,24,28 N=52	SPT	
5					E																									10,24,33 N=57	SPT	
6					F	6.00-6.50m: Becomes Silty SAND.																								27,50/120	SPT	
6.50	9.19					<b>GRANODIORITE (Kgwu)</b> XW: Recovered as white, grey brown, moist, hard, Sandy CLAY.																								15,19,24 N=43	SPT	
7					G																											
8																																
8.50	7.19					<b>MICRODIORITE (Kgwu)</b> SW: Dark grey to brown-grey, medium to coarse grained, massive, very high strength.  Defects: - Js: 10°-30° (1/m); Pl/Ro, TI, Fe St or Cn; 9.70m: Becoming fine to medium grained.																									UCS=179 Is(50) = 12.16MPa Is(50) = 7.15MPa  Is(50) = 6.41MPa Is(50) = 2.79MPa Is(50) = 7.95MPa	D (9.69m) L (8.69m)  A (9.38m) D (9.38m) A (9.41m)
9			(100)																													
9			100																													
9			(100)																													
10																																

REMARKS   Kgwu - Wundaru Granodiorite;  

LOGGED BY  
ML



**CORE PHOTO LOG**

DEPARTMENT OF TRANSPORT & MAIN ROADS  
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 Phone 07 3066 3336



Department of  
 Transport and Main Roads

Project Name	<b>Mackay – Ring Road</b>		
Project No	FG6184	Date	15/12/14
Borehole No	BH162	TMR H No	12103
Location	Ring Road Stage 2 Overpass	Start Depth (m)	8.5
Detail	Abutment B	Finish Depth (m)	13.78
Chainage	<b>11000</b>	Submitted By	DC
Remarks			

