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**Queensland
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**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH307**

Sheet 1 of 2

REFERENCE No

PROJECT Mackay Ring Road

LOCATION Bruce Highway COORDINATES 722294.5 E; 7663398.3 N

PROJECT No FG6184 SURFACE RL 11.65m PLUNGE 90° DATE STARTED 13/10/2015 GRID DATUM GDA 94 / MGA Z55

JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 14/10/2015 DRILLER Saxon Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
												EH	VH
1	9.95		100	A	Gravelly Cobbly CLAY trace boulders (Fill) Brown and grey, dry to moist, soft to hard. Boulders are angular <200mm.					0.20m-0.80m: Boulder encountered 1.00m-1.45m: No sample recovered	3, 2, 2 N=4 SPT		
2				B	CLAY (Alluvium) Dark grey, moist to wet, very soft. High plasticity, trace roots.	(CH)					, 1, 1 N=2 Su(PP)=69 kPa U50		
3				C	3.00m: becomes moist. Medium to high plasticity.						Su(PP)=54 kPa Su(PP)=49 kPa Su(PP)=74 kPa SPT		
4	7.95			D	CLAY (Alluvium) Dark grey and brown grey, moist, firm. Low to medium plasticity.	(CI)					2, 2, 2 N=4 SPT		
5				E							2, 2, 2 N=4 SPT		
6	5.95			F	Sandy CLAY (Alluvium) Dark grey and grey, moist, firm. Fine grained sand, medium plasticity.	(CI)					2, 3, 3 N=6 SPT		
7				G	Sandy Silty CLAY (Alluvium) Yellow brown, moist, very stiff. Fine grained sand, low to medium plasticity. 7.00m: becomes medium dense.	(SC)					9, 10, 13 N=23 SPT		
8	3.85			H	Silty Clayey SAND (Residual) Pale grey, moist, medium dense. Fine to medium grained sand.						6, 9, 12 N=21 SPT		
9				I	9.00m: clay content increasing.	(SC)					17, 15, 13 N=28 SPT		

Continued on next sheet

REMARKS:	LOGGED BY	REVIEWED BY
	C.Boyes	



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Sheet 2 of 2

REFERENCE No _____

PROJECT	Mackay Ring Road				
LOCATION	Bruce Highway	COORDINATES 722294.5 E; 7663398.3 N			
PROJECT No	FG6184	SURFACE RL	11.65m	PLUNGE	90°
				DATE STARTED	13/10/2015
				GRID DATUM	GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM	A.H.D.	BEARING	°
				DATE COMPLETED	14/10/2015
				DRILLER	Saxon Drilling

DEPTH (m)	R.L. (m)	FAUGER CASING WASHBORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
												EH	VH
11				J	Silty Clayey SAND (Residual) (Cont'd) 10.00m: becomes pale brown and grey.						11, 13, 14 N=27	SPT	
12				K		(SC)					9, 12, 17 N=29	SPT	
13	-1.40			L	12.00m: becomes very dense.						10, 18, 18 N=36	SPT	
14	-2.35			M	DOLERITE XW: Recovered as green grey, moist, very dense, sandy gravel. Gravel is angular.						30/100 hb	SPT	
15			(34) 100 (93)		DOLERITE SW: Green grey, fine grained, porphyritic, very high strength. Gradual increase in grain size. Js: 5° to 15°; (~2/m); Pl/Sm; OP; Fe St or Cn; Js: 50° to 70°; (~2/m); Pl/Sm; OP; Fe St or Cn;					14.00m: No sample recovered 14.18m-14.20m: HW zon	hb		
16			100 (100)			SW							
17			100 (89)		17.40m: becomes medium to coarse grained.								
18	-6.80		100										
19					Borehole completed at 18.45m								

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	C.Boyes	