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## GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 FINAL 17/03/2016

BH283

Sheet 1 of 2

BOREHOLE No

REFERENCE No

H12435

PROJE	СТ	Μ	ack	ay Ring	Ro	ad								
LOCAT	ION	La	goo	on Cree	k							COORDINATES 721033.6	E; 765836	59.1 N
PROJE	CT No	FC	661	84		SURFACE RL 7.04m	PLU	INGE	90°	DATE STAF	RTED 08/10/2015	GRID DATUM	ida 94 / N	/IGA Z55
JOB No	D	24	2/1	10G/90	6	HEIGHT DATUM A.H.D.	BEAR	RING	2	DATE COMPLE	ETED 09/10/2015	DRILLER S	axon Drilli	ing
DEPTH (m)	R.L. (m)	AUGER CASING MASH BODING	CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	гітногобу	USCS WEATHERING	INTACT STRENGTH 표, 독, 국, 독, 극, 국, 쿄			ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
- - - - -	6.64					Silty CLAY (Topsoil) Dark brown, dry, firm. Medium plasticity. Silty CLAY (Alluvium)		(CI)		- - - - - - -				
- 1						Grey mottled orange brown, moist, stiff.	×			- - - 				-
- - - -					A	Medium plasticity, trace rootlets.		(CI)					5, 7, 7 N=14	SPT
- - 2 - -	4.74					Sandy CLAY (Alluvium)							3, 4, 4 N=8	SPT
- - - - 3 -	3.84					Grey, moist, firm to stiff. Fine grained sand, low to medium plasticity. CLAY (Alluvium)		(CI)		- - - - - - -			50% PI= 27% 50% LS= 11%	SPT
-						Dark (Alluvium) Dark grey, moist, very soft. High plasticity, trace roots (mangroves).		(CH)		- - - - - -			1, hw, 1 N=1	
4  	2.84 2.44					Clayey SAND (Alluvium) Pale grey, wet, loose. Medium grained sand.		(SC)					1, 3, 5 N=8	SPT
- - - - - - - - - - - -						Silty SAND (Alluvium) Grey, wet, medium dense. Medium grained sand.	x × x × x × x ×	(SM)					4, 8, 5 N=13	SPT
- - - - - -	0.64					6.00m: becoming loose. Fine to coarse grained sand. Silty CLAY trace sand (Alluvium) Pale grey mottled orange brown,	X X X I I			- - - - - - - -			1, 3, 5 N=8	SPT
- - - - - -	-0.46				G	moist, stiff. Fine grained sand, low plasticity.		(CL)		- - - - - - -			4, 5, 6 N=11	SPT
- 8					_	GRANODIORITE (Kgwu) XW: Recovered as pale grey, moist, dense, silty SAND trace clay. Fine to coarse grained sand.	+++ +++ +++			- - - - - -			9, 19, 19 N=38	SPT
- - - - - - - - - -					1	9.00m: becoming very dense.	+ + + + + + + + + + + +	xw				15	9, 29, 30/135	SPT
-	-2.96						+ + + + + +				10.00m: No sample r	ecovery		
						Continued on next sheet							hb	
KE	IVIAR	КУ:	K	gwu =	VV	/undaru Granodiorite						LOGGED BY		WED BY
												C.Boyes	S.F	oley

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													FINAL 1	7/03/2016	
							GEOTECHNICAL				BOREHOLE No BH283		H283		
Queensland							BOREHOLE LOG					Shee	t 2 of 2		
1	BS!	XI.	Go	Ve	ernment		FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014				REFERENCE No	H	12435		
PROJECT	r	Ma	kay Rin	g Rc	bad						L				
LOCATIO	DN	Lag	Lagoon Creek									COORDINATES 721033.6	5 E; 76583(	69.1 N	
PROJECT No		FG6184			SURFACE RL 7.04m	SURFACE RL 7.04m		PLUNGE 90° DATE STAF		RTED 08/10/2015 GRID DATUM GDA 94		GDA 94 / 1	MGA Z55		
JOB No		242	/10G/90	06	HEIGHT DATUM A.H.D.	ATUM A.H.D.			BEARING DATE COMPLE			TED 09/10/2015 DRILLER Saxon Drilling			
			RQD					U				ADDITIONAL DATA			
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CODE DDII ING		SAMPLE	MATERIAL DESCRIPTION	N	LITHOLOGY	WEATHERING	INTACT STRENGTH			AND TEST RESULTS		SAMPLES TESTS	
-					GRANODIORITE (Kgwu)		++		=					-	
12	-4.01		(0) 91 (74) 100 (71) 100 (99)	CORE	XW: (Cont'd) GRANODIORITE (Kgwu) SW: Grey speckled dark grey pink, medium to coarse grai porphyritic, very high streng Frequent Microdiorite xeno to 50mm. Js: 5° to 15°; (<6/m); PI/Sm- Cn or Fe St; Js: 20° to 35°; (<4/m); PI/Sm- or Fe St or CA VN <2mm; MICRODIORITE (Kgwu) SW: Grey, fine grained, mas: very high strength. Js: 5° to 15°; (<2/m); Un/Sm	ned, gth. liths up Ro; OP; n; OP; Cn sive,		sw	VH VH		11.00m: No sample 11.12m-11.23m: J; VN <1mm 11.31m-11.36m: H 11.47m-11.58m: H 11.47m-11.58m: C 12.62m-12.80m: C Ro, CA	60°, PI/Sm, CA F A VNs; 30°, PI/ Is Is	hb (50)=3.60 MPa (50)=1.80 MPa (50)=1.90 MPa (50)=7.00 MPa	L (11.20m)	
  	-9.03		100		Borehole completed at 16.0	 )7m					15.64m: J; 40°, Pl/S	ism, Cn; Is	(50)=7.80 MPa (50)=9.50 MPa	 D (15.55m) A (15.56m) 	
										· - -					
REI	MAR	KS:	Kgwu :	= W	/undaru Granodiorite							LOGGED BY	REVIE	EWED BY	
												C.Boyes		Foley	
						TMR G	EOTECHNI	ICAL BO	REHOLE LOG - CREATED WIT	TH HOLEBASE SI					

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## CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS Geotechnical Section 35 Butterfield Street, Herston Qld 4006 Phone 07 3066 3336



Designed M			
Project Name	Mackay – Ring Road (Stage 2)	Data	00/10/15
Project No.	FG6184	Date	09/10/15
Borehole No.	BH 283	TMR H No.	H12435
Location	Lagoon Creek Bridge	Start Depth (m)	11.05
Detail	Abutment B, RHS	Finish Depth (m)	16.07
Chainage Remarks		Submitted By	M.Ensor
F46184	H.E.E BH283		BOXI
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F46184			
PACIDA 0	BH283		BOX 2
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		And Antick and	
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	A second		19. 19.
0 100	200 200 400	E00 600	700
0 100	200 300 400	500 600	700
	SCALE 1:5		

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