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											FINAL 1	7/03/2016
27	AC					GE	OTECHN	ICAL		BOREHOLE No	BI	H278
Queensland						BO	REHOLE	LOG		Sheet 1 of 2		
Government			FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014					REFERENCE No H12430				
					511	IVIBOLS	REFER FORM F:GEO	01 017/8-2014				
PROJECT		ackay Rin	-	iad								
LOCATION Lagoon Creek									COORDINATES 721020.3	E; 765834	45.6 N	
PROJECT No	FG	6184		SURFACE RL 7.24m	PLU	INGE 9	0°	DATE STAF	RTED 11/10/2015	GRID DATUM	GDA 94 / N	MGA Z55
JOB No	24	2/10G/90	06	HEIGHT DATUM A.H.D.	BEA	RING _		DATE COMPL	ETED 12/10/2015	DRILLER C	Cairns Dril	ling
DEPTH (m) (m)	R JG I BORING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	гітногоду	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING		ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
	AUGE CASIN WASH	CORE				ME	ਜ਼ੵਙ _ੵ ਸ਼ੵਙੵਸ਼ੵਖ਼	u u v v v v v v v v v v v v v v v v v v				
6.84	-		А	Silty CLAY (Topsoil) Dark brown, moist, very soft to soft. <u>Low to medium plasticity, organics.</u> CLAY trace sand (Alluvium) Brown, moist, soft. <u>Medium plasticity.</u> <u>1.00m: becomes</u> stiff		(CI) (CI)		- - - - - - - - - - - - - - - - - - -			5, 6, 8 N=14	SPT
5.24								-				
			В	Sandy CLAY (Alluvium) Grey, moist, stiff. Fine grained sand, low to medium		(CI)		- - - -			3, 6, 6 N=12	SPT
4.24				plasticity.		-		-				-
- 3 			С	CLAY (Estuarine) Dark grey, moist, very soft to soft.		(CI)					<75µm= 88% hw, hw, 2	SPT
3.54				Medium plasticity. SAND (Alluvium)				-			N=2	-
4			D	Grey, moist to wet, loose. Fine to coarse grained. Trace silt.		-		- 			3, 4, 5 N=9	SPT
			E	5.00m: becomes loose to medium dense. Trace gravel.		(SP)					2, 4, 6 N=10	SPT
6			F	6.00m: becomes medium dense.		· · · · ·					3, 6, 7 N=13	SPT
7 7			G	Sandy CLAY (Alluvium) Brown, moist, hard. Fine grained sand, low plasticity. 7.00m: becomes stiff to very stiff				- - - - - - - -	7.00m-7.45m: No sa recovered	mple	4, 6, 9 N=15	SPT
- - - - - - - - - - - - - -			н	8.00m: becomes very stiff.		(CL)		- - - - - - - - -	8.00m-8.45m: No sa recovered	mple	4, 6, 11 N=17	SPT
- - - - - - - - - - - - - - - - - - -			1	8.90m: sand content increasing GRANODIORITE (Kgwu) XW: Recovered as dark brown, moist, very dense, silty sand.	++++	xw		- - - - - -		fuel	19, 30/50 hb	SPT
-	[(39)		GRANODIORITE (Kgwu)	++	SW	VH	с	9.60m: Rock roller re))=13.00 MPa	D (9.70m)
-2.76				Continued on next sheet	+	1			I			
REMAR	KS:	Kgwu	= W	/undaru Granodiorite						LOGGED BY	REVIE	WED BY

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TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

T.Goosey

S.Foley

												FI	NAL 1	7/03/2016
						GEOTECHNICAL				BOREHOLE No BH278			H278	
Queensland						BOREHOLE LOG					Sheet 2 of 2			
Governme			/ernment		FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014				REFERENC	CE No	H	12430		
PROJE	PROJECT Mackay Ring Road													
	Location Lagoon Creek COORDINATES 721020.3 E; 7658345.6 N													
PROJE	PROJECT No FG6184 SURFACE RL 7.24m PLUNGE 90° DATE STARTED 11/10/2015 GRID DATUM GDA 94 /								A 94 / N	MGA Z55				
JOB N	JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 12/10/2015 DRILLER Cairns Drilling									ling				
-			RQD				-							
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	CORE REC %	비 MATERIAL D	DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH 표구,파,파,파,파,파,파	DEFECT SPACING		ADDITIONAL DA AND TEST RESULT			SAMPLES TESTS
-				GRANODIORITE (K SW: (Cont'd) Grey		÷.+	sw xw		м	10.23m-10.33m:		UCS=101	L.00 MPa =63 GPa	(10.16m)
-	-3.28			coarse grained, po high strength.		; <u>+</u>	SW	VH	c	seam, extremely 10.33m-10.52m: St;	low strength J; 85°, St/Ro, TI, Fe		v= 0.25 8.50 MPa	l (10.44m)
-				Js: 15° to 30°; (3/r	n); PI/Ro ;OP; Cly	+	НW	L VL	vc-c	10.52m-10.55m: extremely low str	ength.			-
- 11	-3.81	$\left \right \left \right $	100 (74)	f <u>L;</u> GRANODIORITE (K		key Incorrec	XW			10.95m-11.05m: extremely low str 11.10m-11.19m:	ength.			-
Ē				HW: Brown, medi grained, porphyrit		Ley Incorrect Ley	¢		C				9.60 MPa	 D (11.50m)
E				strength. Js: 35° to 45°; (2/r	n): Pl/Ro: Fl : Clv:	tay locorrect tay	SW	VH	w			ls(50)=9	9.60 MPa	A (11.51m)_
- 12			100	J <u>s: 65° to 70°; (2/r</u> GRANODIORITE (K	n); St/Ro; FL; Cly;	incorrect key incorrect	1							-
-			(80)	SW: Grey, fine to r	nedium grained,	key Incorrec key Incorrec	sw	VH	м			ls(50)=2	2.80 MPa	– – A (12.52m)
Ē				porphyritic, gener strength.		key Incorrec key	s 6		с		MW zone, brown-			-
13				-Js: 10°-20° (2/m), -Js: 65°-70° (2/m),		Incorrect Rey Incorrect	MW	H-VH	vc-c	grey, high to very Some sand and co joints.		ls(50)=3	8.20 MPa	
Ē				FeSt, CA		say incorrect say						15(30)-3	5.20 WIFa	- (13.22iii)
-						incorrect key incorrect key	2							-
- 14						incorrec key	sw	VH	м			ls(50)=15	5.00 MPa	– D (14.05m)–
E						key Incorrec key	500					UCS=141	00 140-	 (14.52m)
Ē						tey tey incorrect	c		c	14.65m: Pale red, cross cutting ban	. 80°, 20-30mm d.	003-141		(14.52111) _
- 15	-7.81		100	Borehole comp	leted at 15.05m	incorrec	e	-	-			Is(50)=8	8.70 MPa	 A (15.00m)
								-						-
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- 16								-	+ +					-
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		к э . I	kewu =	Wundaru Granoc	nonte						LOGGE			EWED BY
					TMR	EOTEC	HNICAL B	DREHOLE LOG - CREATED	WITH HOLEBASE SI		T.Goo	ъсу	۵.	Foley

CORE PHOTO LOG

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



Drojoot Nama	Mackay Ding Dood (Stage 2)		
Project Name Project No.	Mackay – Ring Road (Stage 2) FG6184	Date	12/10/15
Borehole No.	BH 278	TMR H No.	H12430
			9.06
Location	Lagoon Creek	Start Depth (m)	
Detail	Abutment A, LHS	Finish Depth (m)	15.05
Chainage		Submitted By	M.Ensor
Remarks		2 11 0 0	
		M.R.R. SOK 1 SOK 1	
0 100	200 300 400 SCALE 1:5	500 600	700

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