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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 10:50

ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH126
SHEET	_1_ of _3_
REFERENCE No	12072

PROJE	СТ	_M	<u>acka</u>	ay Ring F	Road_	Geotechnical Investigation - Stage 1								
LOCAT	TION	_G	<u>ibso</u>	ns Road	<u>Over</u>	<u>pass Abutment B; CH: 6485m;</u>					COORE	DINATES <u>72109</u>	7.0 E; 7658831.	<u>2 N</u>
PROJE	ECT No	0 <u>F</u>	<u>G618</u>	84		SURFACE R.L. <u>10</u> .42m PLUNGE		_	-	DATE STARTED 2	0/9/14	GRID DATUM	GDA 94 /MG/	<u> </u>
JOB N	0	_				HEIGHT DATUM <u>AHD</u> BEARING		_	-	DATE COMPLETED 2	0/9/14	DRILLER	ND Drilling Pt	y Ltd
PTH (m)	R.L. (m)		VASH BORING ORE DRILLING	RQD () % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	ISC	VEATHERING	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL AND TEST RESU		SAMPLES
- 0	10.42		>0	REC %	0)	Sandy CLAY (TOPSOIL)	711/		>	 				<i>o</i> ⊢
- - - - - - 0.80	9.62					Dark brown, moist, soft. Medium plasticity. Some plant roots.	<u> </u>	(C	CI)					- - - - -
- -1 - - - - - - - -					A	Sandy CLAY (ALLUVIUM) Black and orange, moist, firm. Medium plasticity. Fine to coarse grained sand.		(C	CI)				Su _(PP) =52kPa;	U50 _
2.00 - - - - -	8.42	-			В	Clayey SAND (ALLUVIUM) Orange-brown mottled grey, moist, medium dense. Fine to coarse grained.							5,6,8 N=14	SPT -
- - -3 - -					С	3.20m: Colour change to brown and black.		(S	iC)	± ±			4,7,8 N=15	SPT -
 - - - - - 4.10	6.32				D	Sandy Gravelly CLAY bed <300mm. Silty SAND (ALLUVIUM)					-			U50 -
- - - - - - - - - - 5						Brown-orange, wet, medium dense. Fine to coarse grained sand. Trace fine to medium, rounded to subrounded gravel.				± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±			11,11,12	- - - - - - - - -
- - - - - - - - - -					E					± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±			N=23	SPT
- - - - - - - - - -					F			(S	M)	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±			12,10,8 N=18	SPT -
- - - - - - - -					G								4,5,6 N=11	SPT -
					Н					Ŧ 			6,6,7 N=13	SPT -
- -9 - - - - - - - - - - - - - -	0.62				J					+			10,8,9 N=17	SPT -
10						Sandy Silty GRAVEL (ALLUVIUM)		(G	M)	<u> </u>				
RE	MARK	s <u>K</u>	<u>gw</u> u	- Wunda	aru G	eranodiorite;		_	_		 		LOGGED BY ML	



ENGINEERING BOREHOLE LOG

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

BOREHOLE No __BH126 __

SHEET __2 _ of __3 __

REFERENCE No __12072 ___

PROJEC'						Geotechnical Investigation - Stage 1								
LOCATIO						pass Abutment B; CH: 6485m;							7.0 E; 7658831.	
JOB No	I NO	_FG				SURFACE R.L. <u>10.42m</u> PLUNGE _ HEIGHT DATUM <u>AHD</u> BEARING _						GRID DATUM	ND Drilling Pt	
(m) HT	n)	NG NG NG NG NG NG NG NG NG NG NG NG NG N	SORING	RQD ()%		MATERIAL DESCRIPTION			INTA	CT DEFEC	т	ADDITIONAL AND	DATA	ES
10 (0.42	CAS	COR	CORE REC %	SAMPLE		LET	USC		ZO SO < U L L L L L L L L L L L L L L L L L L	GRA EW	TEST RESU	JLTS	SAMPLI
- - - -	0.48				K	Sandy Silty GRAVEL (ALLUVIUM) (Cont'd) Grey and orange, wet, dense. Fine to medium, rounded to subrounded gravel. Fine to coarse grained sand.		(GM					19,13,23 N=36	SPT
11 					L	Silty CLAY (ALLUVIUM) Grey-brown, moist, very stiff. High plasticity. Trace fine to coarse grained sand.							9,8,12 N=20	SPT
- 12 - - - - -					М			(CH)				Su _(PP) =112kPa;	U50 -
-13					N								6,10,13 N=23	SPT
-3 - - - - - - - -	3.58				Р	Sandy CLAY (ALLUVIUM) Grey-orange mottled black, moist, very stiff. High plasticity. Fine to coarse grained sand							8,12,16 N=28	SPT
15 					Q			(CH					7,8,10 N=18	SPT
- 16 - - - - - - - - - - - -	6.48				R								8,10,15 N=25	SPT
- 17 - 17.30 -6	6.88				S	Clayey SAND (RESIDUAL) Grey-orange mottled black, dry, very dense Fine to coarse grained.	+	(SC)				16,27,33 N=60	SPT
					Т	MICRODIORITE (Kgwu) XW: Grey-orange mottled black, fine to medium grained, extremely low strength.		xw	,				23,34,37 N=71	SPT
	8.81			(0)	U		+++++						40/100	SPT
				100		MICRODIORITE (Kgwu) HW: Grey-brown, fine to medium grained, massive, low strength. Broken throughout.	+ + + +	HW	/			9.32m-19.42m: BZ; 9.49m-19.72m: BZ; 9.80m-20.06m: BZ;		-
REMA	ARKS	<u>Kg</u>	<u>wu</u>	- Wund	aru G	ranodiorite;	 						LOGGED BY ML	



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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH126
SHEET	_3_ of _3_
REFERENCE No	12072

PRO	JECT	_Mack	ay Ring F	Road_	Geotechnical Investigation - Stage 1							
LOC	ATION	_Gibs	ons Road	Ove	rpass Abutment B; CH: 6485m;					CC	OORDINATES 721097.0 E; 7658831	.2 <u>N</u>
PRO	JECT No	FG61	184		SURFACE R.L. <u>10.42m</u> PLUNGE			DATE S	STARTED .	20/9/	14 GRID DATUM <u>GDA 94 /MG</u>	<u> </u>
JOB	No				HEIGHT DATUM <u>AHD</u> BEARING			DATE CON	MPLETED .	20/9/	14 DRILLER ND Drilling Pt	ty Ltd
OEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ()% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT STRENGTH	DEFECT SPACING (mm)	- EW GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
- - - - - - - - - - - - - - - -	-9.64/ -10.68		100 (22) 100 (0)		GRANODIORITE (Kgwu) HW: Pink to brown and white, fine to coarse grained, massive, very low strength. Defects: - Js; 0°-20° (3/m); PI-Un/Ro, TI, Cly Vr; - Js; 45° (3/m); PI-Un/Ro, TI, Cly Vr;	+ + + + + + + + + + + + + + + + + + + +	HW				- 20.95m-21.10m: Core Loss	
- - - - - - - - 22.20	-11.78		81 (14) 71	×	MICRODIORITE (Kgwu) MW: Grey-brown, fine grained, massive, low to medium strength. Defects: - Js; 30°-40° (3/m); Pl/Ro, TI, Cly Vr;	+ + - + + + + + + + + +	MW	,			21.50m-21.70m: Core Loss	-
		e Kawa		aru G	Borehole terminated at 22.2m						LOGGED BY	
R	EMARK	S <u>Kgw</u> ı	u - Wunda	aru G	iranodiorite;						LOGGED BY ML	
											-	

CORE PHOTO LOG

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	20/09/14
Borehole No	BH126		TMR H No	12072
ocation	Gibsons Rd O	verpass	Start Depth (m)	19.15
Detail	Abutment B		Finish Depth (m)	22.2
Chainage	6485		Submitted By	DC
Remarks			·	
BH26 251 1408/130 GE			\$ 100 mm	15 12 - 1 8
			30,000	20.95
Toæर <u>थ</u>	Sand Sand	21.50 F08	d	
	BH BH	126 1408.1131	• • •	
	11 4			
		Scale (mn	1)	