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**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH262**

Sheet 1 of 4

REFERENCE No **H12271**

PROJECT	Mackay Ring Road		
LOCATION	Pioneer River Bridge, Abutment B (CL)	COORDINATES 721374.2 E; 7660682.2 N	
PROJECT No	FG6184	SURFACE RL 9.32m	PLUNGE 90°
			DATE STARTED 28/06/2015
			GRID DATUM GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING °
			DATE COMPLETED 29/06/2015
			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
8.72					Silty SAND (Alluvium) Grey brown, moist, loose.	(SM)							
1				A	SAND (Alluvium) Pale orange brown, dry, loose. Fine grained sand. Trace silt.						3, 3, 4 N=7	SPT	
2				B	2.00m: silt content increasing	(SP)					3, 3, 4 N=7	SPT	
3				C							3, 2, 4 N=6	SPT	
5.52				D	SAND trace gravel (Alluvium) Pale orange grey, moist, medium dense. Fine to coarse grained sand, fine to medium grained gravel.						8, 13, 14 N=27	SPT	
5				E							14, 15, 10 N=25	SPT	
6				F							19, 11, 17 N=28	SPT	
7				G		(SP)					15, 11, 11 N=22	SPT	
8				H	8.00m: Becomes dense.						11, 16, 24 N=40	SPT	
9				I							7, 9, 24 N=33	SPT	
-0.68													

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REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY	REVIEWED BY
C.Boyes	S.Foley



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BOREHOLE No **BH262**

Sheet 2 of 4

REFERENCE No **H12271**

PROJECT	Mackay Ring Road		
LOCATION	Pioneer River Bridge, Abutment B (CL)	COORDINATES 721374.2 E; 7660682.2 N	
PROJECT No	FG6184	SURFACE RL 9.32m	PLUNGE 90°
			DATE STARTED 28/06/2015
			GRID DATUM GDA 94 / MGA 255
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING °
			DATE COMPLETED 29/06/2015
			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	H	M	J	VI	EL	EC	VC	C		
11				J	Gravelly SAND with cobbles (Alluvium) Grey brown, wet, dense. Medium to coarse grained sand, fine to coarse grained gravel, subangular grains.	(SP)												12, 16, 21 N=37	SPT
				K	11.00m: becomes coarse grained sand, with fine to medium grained gravel, subangular grains.													21, 23, 20 N=43	SPT
				L	11.90: fines content increasing. Sandy CLAY (Alluvium) Pale grey, mottled orange, moist, stiff to very stiff. Fine grained sand, medium palsticity.	(CI)												9, 3, 8 N=11	SPT
	-2.88			M														8, 8, 8 N=16	SPT
				N	Silty SAND trace gravel (Alluvium) Pale orange grey, moist, medium dense. Fine to medium grained sand, medium grained gravel.	(SM)												7, 11, 14 N=25	SPT
				O	15.00: Silt content decreasing													14, 15, 12 N=27	SPT
	-4.68			P	Silty Clayey SAND trace gravel (Alluvium) Pale grey, mottled orange, moist, medium dense to dense. Medium to coarse grained sand, medium grained gravel.	(SC)												10, 9, 17 N=26	SPT
				Q	Sandy CLAY with gravel (Alluvium) Pale, grey brown, moist, hard. Fine grained sand, medium grained gravel, high plasticity.	(CH)												15, 16, 27 N=43	SPT
				R														17, 22, 30/140	SPT
	-7.98			S	GRANODIORITE (Kgwu) HW: Dark grey and grey, coarse grained, massive, very low strength.	HW												30/135	SPT
	-9.18																		
	-10.68																		

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REMARKS: Kgwu = Wundaru Granodiorite

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BOREHOLE No **BH262**

Sheet 3 of 4

REFERENCE No **H12271**

PROJECT	Mackay Ring Road				
LOCATION	Pioneer River Bridge, Abutment B (CL)			COORDINATES 721374.2 E; 7660682.2 N	
PROJECT No	FG6184	SURFACE RL 9.32m	PLUNGE 90°	DATE STARTED 28/06/2015	GRID DATUM GDA 94 / MGA 255
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING °	DATE COMPLETED 29/06/2015	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
21					GRANODIORITE (Kgwu) HW: Dark grey and grey, coarse grained, massive, very low to low strength.	+					SPT 30/95 hb		
22						+	HW				SPT 30/50 hb		
23			(0)			+							
24	-14.54		83 (71)		GRANODIORITE (Kgwu) SW: Pale red, dark grey and grey, coarse grained, massive, very high strength. Js: 10° to 20°; (<1/m): Pl/Ro; CD; Cn;	+	MW			23.95m: J: 20°; Pl/Ro; CD; Cn; 23.98m-23.99m: BZ; 24.04m-24.08m: BZ; 24.30m: DI	S(50)=10.00 MPa A (24.20m) S(50)=6.80 MPa D (24.35m) UCS=41.30 MPa (24.58m)		
25			96 (100)			+	SW			24.98m: DI;	S(50)=11.00 MPa D (25.26m)		
26	-16.12				MICRODIORITE (Kgwu) SW: Grey, fine to medium grained, crystalline, massive, very high strength. Js: 30° to 60°; (1/m): Pl/Sm; OP; Cn; Js: 0° to 30°; (<1/m): Pl/Sm-Ro; OP; Cn;	+				25.78m: DI; 25.80m-26.15m: Granodiorite band	S(50)=4.20 MPa A (25.66m)		
27			100 (99)			+					S(50)=8.00 MPa D (27.20m) S(50)=0.41 MPa A (27.28m)		
28			100 (96)			+	SW				S(50)=8.60 MPa D (28.27m) S(50)=8.20 MPa A (28.39m)		
29			(100)			+				28.87m: J: 10°; Pl/Ro; CA;	S(50)=9.10 MPa D (29.37m) UCS=147.00 MPa (29.67m)		
20	-20.68					+							

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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



Project Name	Mackay – Ring Road (Stage 2)		
Project No.	FG6184	Date	02/07/15
Borehole No.	BH 262	TMR H No.	H12271
Location	Pioneer River Bridge	Start Depth (m)	22.70
Detail	Abutment B, centreline	Finish Depth (m)	33.92
Chainage		Submitted By	M.Ensor
Remarks			

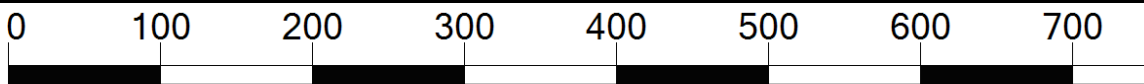


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Project No.	FG6184	Date	02/07/15
Borehole No.	BH 262	TMR H No.	H12271
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Detail	Abutment B, centreline	Finish Depth (m)	33.92
Chainage		Submitted By	M.Ensor
Remarks			



SCALE 1:5