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**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH258**

Sheet 1 of 3

REFERENCE No **H12267**

PROJECT **Mackay Ring Road**

LOCATION **Pioneer River Bridge, Pier 19 (LHS)**

COORDINATES **721361.5 E; 7660663.2 N**

PROJECT No **FG6184**

SURFACE RL **6.50m**

PLUNGE **90°**

DATE STARTED **03/07/2015**

GRID DATUM **GDA 94 / MGA Z55**

JOB No **242/10G/906**

HEIGHT DATUM **A.H.D.**

BEARING **°**

DATE COMPLETED **04/07/2015**

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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	5.80				Silty Sandy CLAY (Topsoil) Dark brown, moist, soft. Fine grained sand.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

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REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY

REVIEWED BY

C.Boyes

S.Foley

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH258**

Sheet 2 of 3

REFERENCE No **H12267**

PROJECT	Mackay Ring Road
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LOCATION	Pioneer River Bridge, Pier 19 (LHS)
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COORDINATES 721361.5 E; 7660663.2 N

PROJECT No FG6184

SURFACE RL 6.50m

PLUNGE 90°

DATE STARTED 03/07/2015

GRID DATUM GDA 94 / MGA Z55

JOB No 242/10G/906

HEIGHT DATUM A.H.D.

BEARING °

DATE COMPLETED 04/07/2015

DRILLER Saxon Drilling

DEPTH (m)	R.L. (m)	AUGER CASING	WASTEBORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH								DEFECT SPACING						ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
									EH	VH	H	M	L	VL	EL	EC	VC	W	WW	EW					
	-4.20				J	Sandy CLAY (Alluvium) Pale grey, moist, stiff. Fine grained sand, high plasticity.		(CH)																4, 5, 5 N=10	SPT
11					K	Silty SAND (Alluvium) Dark grey and orange, moist, medium dense. Fine grained sand.		(SM)																7, 7, 6 N=13	SPT
12					L																			6, 11, 14 N=25	SPT
13	-6.50				M	Sandy CLAY (Alluvium) Dark orange brown, moist, very stiff. Medium grained sand, fine to medium grained gravel, rounded grains, high plasticity.		(CH)																8, 10, 8 N=18	SPT
14	-7.20				N	Silty CLAY (Residual) Mottled orange brown and grey, moist, very stiff. Mainly high plasticity, trace medium plasticity carbonaceous clay.		(CH)																10, 12, 17 N=29	SPT
15	-8.50				O	GRANODIORITE XW: Recovered as speckled dark grey, grey and pale red, moist, dense, clayey sand. Fine to coarse grained sand.		XW																14, 23, 22 N=45	SPT
16	-10.35				P	Becoming very dense.																		24, 30, 30/130	SPT
17				(22)		MICRODIORITE SW: Grey speckled dark grey, fine to medium grained, massive, medium to very high strength, weathered seams throughout <20mm thick. Some MW zones. CV: 5° to 20°; (5/m); Pl/Sm; Cly; GRANODIORITE HW: Speckled dark grey, grey and pale red, medium to coarse grained, massive, extremely low to very low strength.		SW MW HW HW XW MW																Is(50)=2.50 MPa Is(50)=1.80 MPa	A (16.94m) I (17.49m)
18	-11.30			91 (0)																				17.42m-17.45m: SZ: 70°; Cly, Sinf; 17.52m-17.62m: SZ: 70°; Cly, Sinf; 17.62m-17.70m: CORE LOSS 17.70m-17.80m: SZ: 70°; Cly, Sinf;	
19	-12.28			94 (15)																				18.78m-18.92m: SZ: 50°; brecciated, Cly; 18.92m-19.00m: CORE LOSS 19.00m-19.04m: CORE LOSS 19.35m-19.57m: SZ: 50°; brecciated, Cly;	
	-13.07					MICRODIORITE SW: Grey, fine grained, massive, high to very high strength. Some moderately weathered zones. GRANODIORITE		SW MW HW																	

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REMARKS: Kgwu = Wundaru Granodiorite

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C.Boyes

S.Foley



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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH258**

Sheet 3 of 3

REFERENCE No **H12267**

PROJECT	Mackay Ring Road				
LOCATION	Pioneer River Bridge, Pier 19 (LHS)			COORDINATES 721361.5 E; 7660663.2 N	
PROJECT No	FG6184	SURFACE RL	6.50m	PLUNGE	90°
				DATE STARTED	03/07/2015
				GRID DATUM	GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM	A.H.D.	BEARING	°
				DATE COMPLETED	04/07/2015
				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	H	M	J	VI	EL	EC	VC	C	M	W	VW	EW									
	-13.95		97 (82)		HW: Speckled dark grey, grey and pale red, medium to coarse grained, massive, extremely low strength. Js: 20°-30°(<2/m); Pl/Sm-Ro; OP; Cn; MICRODIORITE SW: Grey, fine grained, massive, very high strength. Js: 20° to 50°; (2/m); Pl/Ro; OP; some Fe St and CA Ct;	+	HW																					Is(50)=8.10 MPa	A (20.06m)	
						+	SW																						Is(50)=14.00 MPa	D (20.35m)
21						+																								
						+																								
			100 (33)			+	SW																							
22	-15.60					+																								
						+																								
			100 (92)			+	SW																							
23						+																								
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28	-21.29					+																								
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29	-23.35					+																								
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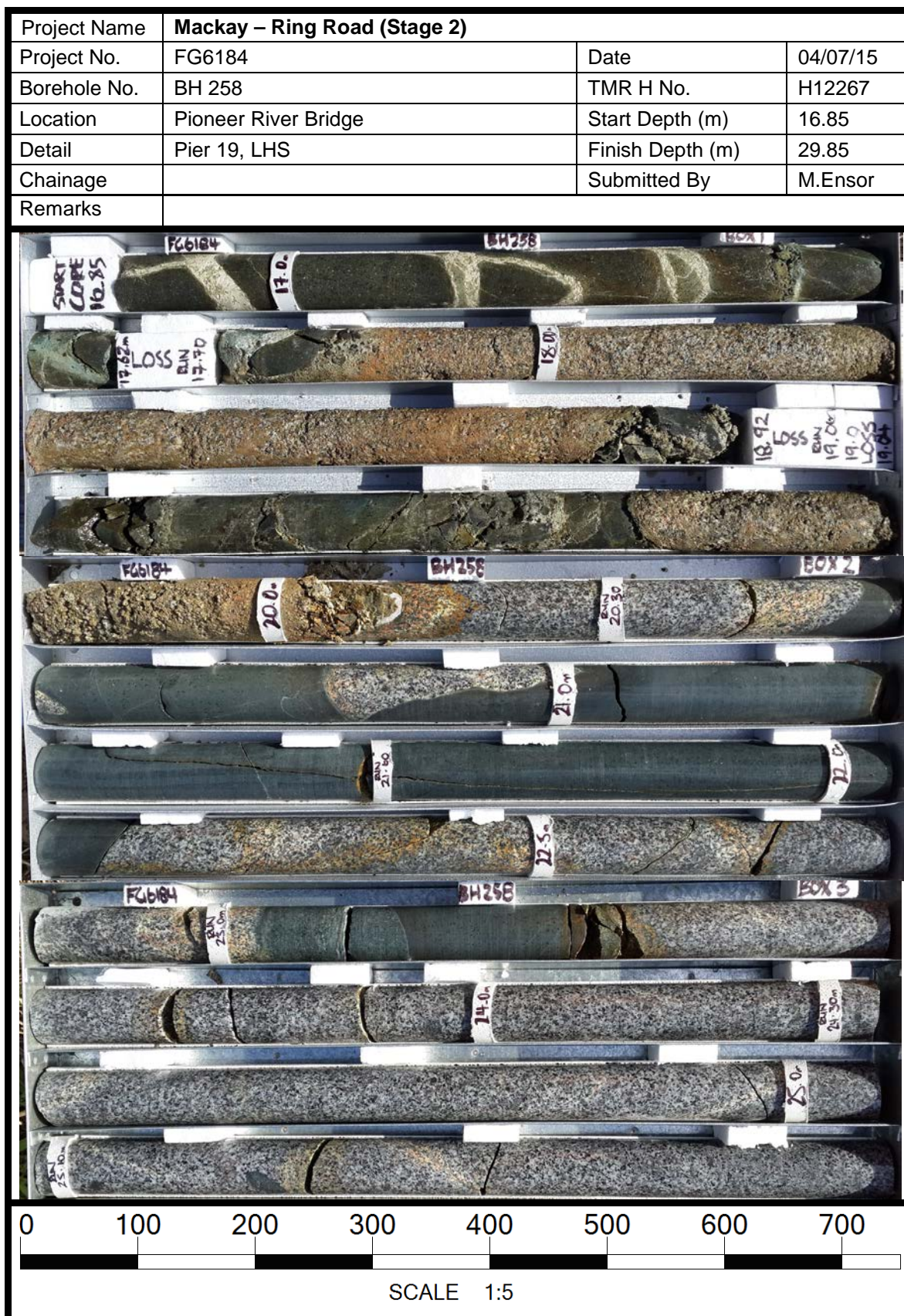
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CORE PHOTO LOG

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Project Name	Mackay – Ring Road (Stage 2)		
Project No.	FG6184	Date	04/07/15
Borehole No.	BH 258	TMR H No.	H12267
Location	Pioneer River Bridge	Start Depth (m)	16.85
Detail	Pier 19, LHS	Finish Depth (m)	29.85
Chainage		Submitted By	M.Ensor
Remarks			

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SCALE 1:5