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**GEOTECHNICAL  
BOREHOLE LOG**

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

BOREHOLE No **BH248**

Sheet 1 of 3

REFERENCE No **H12257**

PROJECT	Mackay Ring Road		
LOCATION	Pioneer River Bridge, Pier 15 (RHS)	COORDINATES 721362.9 E; 7660522.8 N	
PROJECT No	FG6184	SURFACE RL 3.36m	PLUNGE 90°
			DATE STARTED 23/11/2015
			GRID DATUM GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING °
			DATE COMPLETED 25/11/2015
			DRILLER Cairns 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
0					SAND (Fill) Brown, moist, very loose to loose. Fine to coarse grained. (River Bund)								
1				A	1.00m: becomes very loose						2, 1, 1 N=2		
2				B							1, 1 N=1		
3				C		(SP)					, 1, 1 N=2		
4				D	4.00m: becomes loose						1, 3, 3 N=6		
5				E							6, 4, 3 N=7		
6	-2.64			F	Gravelly Silty SAND (Alluvium) Brown, wet, medium dense. Fine to medium sand and gravel.						6, 7, 8 N=15		
7				G		(SP)					10, 13, 14 N=27		
8	-4.64			H	Silty SAND (Alluvium) Grey, wet, medium dense. Fine to coarse grained sand. Trace gravel.						7, 10, 13 N=23		
9				I		(SM)					5, 12, 15 N=27		
10	-6.64												

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REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY	REVIEWED BY
T.Goosey	S.Foley



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**GEOTECHNICAL  
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BOREHOLE No **BH248**

Sheet 2 of 3

REFERENCE No **H12257**

PROJECT Mackay Ring Road  
 LOCATION Pioneer River Bridge, Pier 15 (RHS) COORDINATES 721362.9 E; 7660522.8 N  
 PROJECT No FG6184 SURFACE RL 3.36m PLUNGE 90° DATE STARTED 23/11/2015 GRID DATUM GDA 94 / MGA Z55  
 JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 25/11/2015 DRILLER Cairns 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
11	-7.64			J	CLAY (Alluvium) Brown, moist, hard. Low to medium plasticity. Trace sand.	(CI)				10, 18, 28 N=46	SPT		
12	-8.64			K	Sandy SILT (Residual) Dark grey to pale grey, moist, hard. Fine to medium grained. Granite rock fabric visible.	(ML)				27, 30/120mm	SPT		
13				L	Silty SAND (Residual) Dark grey to pale grey, moist, very dense. Fine to coarse grained sand. Granite rock fabric evident.					30/50mm	SPT		
14				M						30/110mm	SPT		
15				N						30/80mm	SPT		
16				O		(SM)				30/70mm	SPT		
17				P						30/0mm hb	SPT		
18	-14.54 -14.79		(33)	Q	MICRODIORITE MW: Grey, fine grained, massive, medium to high strength. GRANODIORITE (Kgwu )		MW	MH	VC-C	18.15m-18.21m: XW zone.	D (17.95m)		
19			100 (24)		MW: Brown to pale grey, course grained, porphyritic, medium to high strength. -J's: 5°-15° (6-7/m), Pl/Ro, OP, FeSt, some Sinf. -J's: 25°-35° (1-2/m), Pl/Ro, OP, FeSt.		MW	MH	M	18.65m-19.10m: HW zone	A (18.26m) D (18.34m)		
							HW	M	VC-C	19.00m-19.10m: BZ; 19.10m-19.20m: CORE LOSS			
							MW	MH	C		D (19.35m) A (19.50m)		
	-16.64												

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REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY	REVIEWED BY
T.Goosey	S.Foley





**CORE PHOTO LOG**

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



Project Name	<b>Mackay – Ring Road (Stage 2)</b>		
Project No.	FG6184	Date	23/11/15
Borehole No.	BH 248	TMR H No.	H12257
Location	Pioneer River Bridge	Start Depth (m)	17.90
Detail	Pier 15, RHS	Finish Depth (m)	29.85
Chainage		Submitted By	M.Ensor
Remarks			



SCALE 1:5

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Project Name	<b>Mackay – Ring Road (Stage 2)</b>		
Project No.	FG6184	Date	23/11/15
Borehole No.	BH 248	TMR H No.	H12257
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SCALE 1:5