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**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH241**

Sheet 1 of 4

REFERENCE No **H12250**

PROJECT Mackay Ring Road
 LOCATION Pioneer River Bridge, Pier 13 (CL) COORDINATES 721343.3 E; 7660454.1 N
 PROJECT No FG6184 SURFACE RL 3.69m PLUNGE 90° DATE STARTED 03/12/2015 GRID DATUM GDA 94 / MGA Z55
 JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 05/12/2015 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
0					SAND (Fill) Brown, moist, very loose to loose. Fine to coarse grained; trace gravel.	(SW)					
3.0				A						2, 3, 3 N=6	SPT
3.5				A1						3, 3, 4 N=7	SPT
4.0				B						2, 2, 2 N=4	SPT
4.5				B1						4, 3, 3 N=6	SPT
5.0				C						4, 4, 4 N=8	SPT
5.8	-1.81			C1	SAND (Alluvium) Brown, wet, loose. Fine to medium grained; trace silt; trace gravel.	(SW)				3, 3, 3 N=6	SPT
6.5				D						3, 3, 3 N=6	SPT
7.0	-3.31			D1						4, 2, 2 N=4	SPT
7.5				E	Silty SAND (Alluvium) Pale grey brown, wet, medium dense.					9, 8, 7 N=15	SPT
8.0				E1	Fine to medium grained.					7, 12, 14 N=26	SPT
8.5				F		(SM)				8, 9, 11 N=20	SPT
9.0				F1						7, 10, 11 N=21	SPT
9.5				G	9.0m: Becoming fine to coarse grained; trace clay and gravel.					4, 7, 12 N=19	SPT
10.0				G1	9.5m: Becoming dense.					13, 17, 18 N=35	SPT
10.5	-6.31									9, 15, 18 N=33	

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REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY	REVIEWED BY
M. Ensor	S.Foley



**Queensland
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**GEOTECHNICAL
BOREHOLE LOG**

FOR GEOTECHNICAL TERMS AND
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BOREHOLE No **BH241**

Sheet 2 of 4

REFERENCE No **H12250**

PROJECT	Mackay Ring Road		
LOCATION	Pioneer River Bridge, Pier 13 (CL)	COORDINATES 721343.3 E; 7660454.1 N	
PROJECT No	FG6184	SURFACE RL 3.69m	PLUNGE 90°
			DATE STARTED 03/12/2015
			GRID DATUM GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING °
			DATE COMPLETED 05/12/2015
			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
	-6.91			H	Sandy CLAY (Alluvium) Pale grey and brown, wet, hard. Low plasticity; fine to coarse grained sand.	(CL)					9, 11, 15 N=26	SPT	
				H1	Clayey SAND (Alluvium) Pale grey and brown, wet, medium dense to dense. Fine to medium grained sand.	(SC)					9, 13, 19 N=32	SPT	
	-8.01			J							7, 11, 20 N=31	SPT	
				J1	Silty CLAY (Alluvium) Pale grey, brown and white, moist to wet, hard.						17, 25, 30/90mm	SPT	
				K	Medium plasticity; trace sand; trace gravel; trace calcite nodules.								
						(CI)					10, 14, 20 N=34	SPT	
				M							22, 23, 23 N=46	SPT	
	-11.01			N	GRANODIORITE (Kgwu) XW: Recovered as Sandy Gravelly CLAY. Brown and grey, moist, hard. Low plasticity; sand is fine to coarse grained; fine gravel, angular. Calcite throughout; Occasional Dolerite fragments.						30/130mm	SPT	
				P							22, 30/140mm	SPT	
						XW					15, 27, 30/120mm	SPT	
				Q									
				R							17, 25, 26 N=51	SPT	
	-15.31			S	GRANODIORITE (Kgwu) HW: Brown and grey, medium to coarse grained, massive, extremely low to low strength.						30/120mm	SPT	
	-16.31					HW							

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30/60mm
hb

REMARKS: Kgwu = Wundaru Granodiorite

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CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
 Geotechnical Section
 35 Butterfield Street, Herston Qld 4006
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Project Name	Mackay – Ring Road (Stage 2)		
Project No.	FG6184	Date	05/12/15
Borehole No.	BH 241	TMR H No.	H12250
Location	Pioneer River Bridge	Start Depth (m)	24.55
Detail	Pier 13, centreline	Finish Depth (m)	31.60
Chainage		Submitted By	M.Ensor
Remarks			

