

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "*(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence*". This licence does not apply to the Queensland Government logo or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://qgd.org.au/>



**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH259**

Sheet 2 of 4

REFERENCE No **H12268**

PROJECT	Mackay Ring Road		
LOCATION	Pioneer River Bridge, Pier 19 (CL)	COORDINATES 721371.2 E; 7660663.3 N	
PROJECT No	FG6184	SURFACE RL 6.15m	PLUNGE 90°
			DATE STARTED 17/07/2015
			GRID DATUM GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING °
			DATE COMPLETED 18/07/2015
			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
11				J	Clayey SAND trace silt (Alluvium) (Cont'd)						3, 5, 7 N=12	SPT	
				JX							6, 8, 9 N=17	SPT	
				K	11.00m: becomes medium grained sand, trace fine to medium grained gravel, subrounded grains.	(SC)					8, 13, 12 N=25	SPT	
				KX							9, 13, 11 N=24	SPT	
				L							6, 8, 8 N=16	SPT	
	-6.35			LX	Sandy CLAY (Residual) Grey and orange brown, moist, very stiff.						9, 14, 14 N=28	SPT	
				M	Fine to medium grained sand, medium plasticity.	(CI)					9, 12, 18 N=30	SPT	
	-7.35			MX	GRANODIORITE (Kgwu)						13, 17, 30/145	SPT	
				N	XW: Recovered as grey, brown and pink, moist, very dense, silty clayey sand. Fine to medium grained sand.		XW				18, 26, 30/115	SPT	
				(0)	MICRODIORITE (Kgwu)								
				100	MW: Dark grey, fine grained, massive, high strength. Brecciated from 16.60 to 17.00m.								
				(0)	- Js: 60°-75° (~3/m); PI-Un/Sm, OP, Cly Ct;								
				(0)	- Js: 0°-30° (5/m); PI/Ro, Cly and CA Ct;								
				88	GRANODIORITE (Kgwu)								
				(0)	XW: Recovered as speckled grey, dark grey and pink, moist, very dense, clayey gravelly sand. Fine to coarse grained sand, fine gravel. Pyrite throughout.		XW						
				100									
				(0)									
				(0)									
	-11.20			91									
				(0)									
				(0)									
				(0)									
				91									
				(0)									
				(0)									
	-13.85			60									
				(0)									
				(0)									

Continued on next sheet

REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY	REVIEWED BY
C.Boyes	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	Mackay – Ring Road (Stage 2)		
Project No.	FG6184	Date	19/07/15
Borehole No.	BH 259	TMR H No.	H12268
Location	Pioneer River Bridge	Start Depth (m)	16.30
Detail	Pier 19, centreline	Finish Depth (m)	32.50
Chainage		Submitted By	M.Ensor
Remarks			



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	19/07/15
Borehole No.	BH259	TMR H No.	H12268
Location	Pioneer River Bridge	Start Depth (m)	16.30
Detail	Pier 19, centreline	Finish Depth (m)	32.50
Chainage		Submitted By	M.Ensor
Remarks			

0 100 200 300 400 500 600 700

SCALE 1:5

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	19/07/15
Borehole No.	BH 259	TMR H No.	H12268
Location	Pioneer River Bridge	Start Depth (m)	16.30
Detail	Pier 19, centreline	Finish Depth (m)	32.50
Chainage		Submitted By	M.Ensor
Remarks			



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	19/07/15
Borehole No.	BH259	TMR H No.	H12268
Location	Pioneer River Bridge	Start Depth (m)	16.30
Detail	Pier 19, centreline	Finish Depth (m)	32.50
Chainage		Submitted By	M.Ensor
Remarks			

0 100 200 300 400 500 600 700

SCALE 1:5