

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 **BH269**

Sheet 1 of 4

REFERENCE No **H12420**

PROJECT	Mackay Ring Road		
LOCATION	Calrossie Rd - Embankment	COORDINATES 720888.0 E; 7657735.7 N	
PROJECT No	FG6184	SURFACE RL 12.11m	PLUNGE 90°
			DATE STARTED 15/08/2015
			GRID DATUM GDA 94 / MGA 255
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING °
			DATE COMPLETED 17/08/2015
			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
11.81					(Topsoil)								
1				A	Silty CLAY trace sand (Alluvium) Pale brown, dry to moist, stiff to very stiff. Fine grained sand, high plasticity.	(CH)					3, 7, 8 N=15 SPT		
2				B		(CH)					5, 6, 8 N=14 SPT		
3				C	3.00m: becomes brown mottled orange and grey, very stiff						6, 8, 12 N=20 SPT		
8.11				D	Clayey SAND (Alluvium) Grey brown, wet, loose. Fine grained sand.	(SC)					3, 4, 3 N=7 SPT		
7.81				E	SAND trace clay (Alluvium) Pale brown grey, wet, loose. fine to coarse grained. Becoming medium dense.						6, 7, 9 N=16 SPT		
6				F		(SP)					6, 11, 16 N=27 SPT		
7				G	7.00m: becomes medium to coarse grained sand, trace fine grained gravel.						6, 6, 11 N=17 SPT		
8				H	Becoming dense.						9, 15, 17 N=32 SPT		
3.11				I	CLAY (Alluvium) Dark brown, wet, stiff to very stiff. High plasticity.	(CH)					2, 5, 10 N=15 SPT		
2.11													

Continued on next sheet

REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY	REVIEWED BY
T.Goosey	S.Foley



Queensland Government

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No BH269

Sheet 2 of 4

REFERENCE No H12420

PROJECT Mackay Ring Road
LOCATION Calrossie Rd - Embankment
COORDINATES 720888.0 E; 7657735.7 N
PROJECT No FG6184 SURFACE RL 12.11m PLUNGE 90 DATE STARTED 15/08/2015 GRID DATUM GDA 94 / MGA 255
JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING DATE COMPLETED 17/08/2015 DRILLER Saxon Drilling

Table with columns: DEPTH (m), R.L. (m), FAUGER CASING WASHBORING CORE DRILLING, RQD (%), CORE REC %, SAMPLE, MATERIAL DESCRIPTION, LITHOLOGY, USCS WEATHERING (EH, VH, H, M, J, VI, EU, EC, VC, C, M, W, WV, EW), INTACT STRENGTH, DEFECT SPACING, ADDITIONAL DATA AND TEST RESULTS, SAMPLES TESTS.

Continued on next sheet
REMARKS: Kgwu = Wundaru Granodiorite
LOGGED BY T.Goosey REVIEWED BY S.Foley



**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH269**

Sheet 3 of 4

REFERENCE No **H12420**

PROJECT	Mackay Ring Road		
LOCATION	Calrossie Rd - Embankment	COORDINATES 720888.0 E; 7657735.7 N	
PROJECT No	FG6184	SURFACE RL 12.11m	PLUNGE 90°
			DATE STARTED 15/08/2015
			GRID DATUM GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING °
			DATE COMPLETED 17/08/2015
			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	-9.09			T	Clayey SAND (Alluvium) Pale grey, wet, medium dense. Fine to coarse grained sand, low to medium plasticity.	(SC)					9, 10, 12 N=22	SPT	
22				U	Sandy CLAY (Alluvium) Pale grey, moist, very stiff. Fine grained sand, high plasticity.	(CH)					7, 8, 16 N=24	SPT	
				V	22.00m: becomes hard						16, 16, 28 N=44	SPT	
23				W	GRANODIORITE (Kgwu) XW: Recovered as brown grey, mottled black and white, wet, very dense, clayey sand. Fine to coarse grained sand.						30/100 hb	SPT	
24				X							30/100 hb	SPT	
25				Y		XW					30, 30/50 hb	SPT	
26				Z							30/100 hb	SPT	
27	-14.89		(0)		CORE LOSS					27.00m-27.90m: NMLC coring			
	-15.34			AA	GRANODIORITE (Kgwu) XW: Recovered as brown grey, wet, very dense, gravelly sand. Fine to coarse grained sand.					27.90m-29.05m: Rock Roller			
28			50			XW					30/100 hb	SPT	
29	-16.89		(100)	AB	GRANODIORITE (Kgwu) SW: Dark grey and pale grey, coarse grained, porphyritic, very high to extremely high strength. (See over)						30/50 hb	SPT	
	-17.89					SW						D (29.15m)	

Continued on next sheet

REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY	REVIEWED BY
T.Goosey	S.Foley



**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH269**

Sheet 4 of 4

REFERENCE No **H12420**

PROJECT	Mackay Ring Road		
LOCATION	Calrossie Rd - Embankment	COORDINATES 720888.0 E; 7657735.7 N	
PROJECT No	FG6184	SURFACE RL 12.11m	PLUNGE 90°
			DATE STARTED 15/08/2015
			GRID DATUM GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING °
			DATE COMPLETED 17/08/2015
			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	L	VL	EL	EC	VC	C	M	W	VW	EW
31					GRANODIORITE (Kgwu) SW: (Cont'd) Js: 0° to 10°; (<1/m); Pl/Ro; Tl; Cn; Js: 35° to 45°; (1/m); Pl/Ro; Tl; Cn;	+				UCS=87.50 MPa E=81.2 GPa ν= 0.21	(30.22m)														
										Is(50)=7.40 MPa Is(50)=6.50 MPa	D (31.15m) A (31.16m)														
			100 (100)				SW	EH																	
										Is(50)=11.00 MPa	A (32.15m)														
										Is(50)=12.00 MPa	D (33.10m)														
	-21.49		100							Is(50)=8.90 MPa	A (33.42m)														
					Borehole completed at 33.60m					33.37m: DI															
34																									
35																									
36																									
37																									
38																									
39																									

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	Mackay – Ring Road (Stage 2)		
Project No.	FG6184	Date	17/08/15
Borehole No.	BH 269	TMR H No.	H12420
Location	Calrossie Road Overpass	Start Depth (m)	27.00
Detail	Abutment A, RHS	Finish Depth (m)	33.60
Chainage		Submitted By	M.Ensor
Remarks			

The photograph shows a series of soil core samples stored in white boxes. The samples are dark grey to black in color. Handwritten labels on the boxes provide depth information and sample descriptions. Key labels include 'CORE LOSS' (27.00-27.45m), 'ROCK ROLLER' (28.50-29.05m), and 'SPT' (Standard Penetration Test) samples at 28.0m and 29.0m depths. Box numbers 'BOX 1', 'BOX 2', and 'BOX 3' are also visible. Project identifiers 'FG6184' and 'BH269' are present on several boxes. A scale bar at the bottom indicates a 1:5 scale, ranging from 0 to 700 units.

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	17/08/15
Borehole No.	BH 269	TMR H No.	H12420
Location	Calrossie Road Overpass	Start Depth (m)	27.00
Detail	Abutment A, RHS	Finish Depth (m)	33.60
Chainage		Submitted By	M.Ensor
Remarks			

The photograph shows a series of soil core samples stored in white boxes. The samples are dark, silty soils. Handwritten labels on the boxes provide depth information and sample descriptions. Key labels include 'CORE LOSS' (27.00-27.45m), 'ROCK ROLLER' (28.50-29.05m), and 'SPT' tests. Box numbers 'BOX 1', 'BOX 2', and 'BOX 3' are also present. A scale bar at the bottom indicates a 1:5 scale, with markings from 0 to 700 units.