

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/>



ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH150
SHEET	2 of 2
REFERENCE No	12091

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
 LOCATION QR North Coast Rail Overpass Pier 1; CH: 9961m; COORDINATES 721578.3 E; 7662271.0 N
 PROJECT No FG6184 SURFACE R.L. 10.83m PLUNGE _____ DATE STARTED 28/10/14 GRID DATUM GDA 94 /MGA Zone 55
 JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 29/10/14 DRILLER Saxon Drilling

TMR JAN 15.GLB Log_A_ENG BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datget CPT Tool gInt_Acc-In 04/03/2015 10:51

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	INTACT STRENGTH											DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
								USC	WEATHERING	EH	VH	H	M	J	VL	EL	EC	VC					W	VW
10	0.83				K	Silty SAND (ALLUVIUM) (Cont'd)	(SM)																10,11,13 N=24	SPT
10.70	0.13				L	GRANODIORITE (Kgwu) HW: Grey and brown, medium to coarse grained, very low strength. Silicified in parts.																	30/135	SPT
12					M		HW																30/95 11.14m-13.08m: Rock Roller bit used.	SPT
13					N																		30/75	SPT
13.40	-2.57				(0)	GRANODIORITE (Kgwu) SW: Grey and pink, medium to coarse grained, massive, high to very high strength. Defects: - Js- 0°-30° (10/m); Pl/Sm, Tl; - Js; 30°-60° (5/m); Pl/Sm, Tl; - Js; 60°-90° (5/m); Pl/Sm, Tl;	SW																Is(50) = 1.66MPa; #	D (14.32m)
14					(29)		MW																	
15					(0)		SW																	
15					100		MW																	
15					(20)		MW																	
15.80	-4.97				100	MICRODIORITE (Kgwu) SW: Grey, fine grained, massive, very high strength. Defects: - Js; 0°-30° (7/m); Pl/Sm, Tl; - Js; 30°-60° (5/m); Pl/Sm, Tl; - Js; 60°-90° (2/m); Pl/Sm, Tl;	SW																Is(50) = 3.75MPa; #	D (16.23m)
16					(16)		SW																16.58m-16.60m: VN; CA; 20° 16.63m-16.65m: Clay seam; 30° 16.70m: Clay seam; 16.90m-16.97m: CA; 70°	
17					100																			
17.60	-6.77				(37)																			
18						GRANODIORITE (Kgwu) HW: Grey, medium to coarse grained, massive, medium to high strength.	HW																17.50m-17.95m: Breccia; CA;	
18.53	-7.70				100		MW																Is(50) = 0.57MPa Is(50) = 0.76MPa Is(50) = 1.11MPa	A (18.35m) D (18.37m) A (18.45m)
19						Borehole terminated at 18.53m.																		

REMARKS Kgwu - Wundaru Granodiorite;
Sample failed along existing defect surface.
Rock Roller used from 11.14m to 13.08m.

LOGGED BY
ME

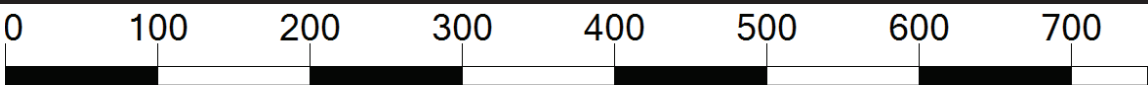
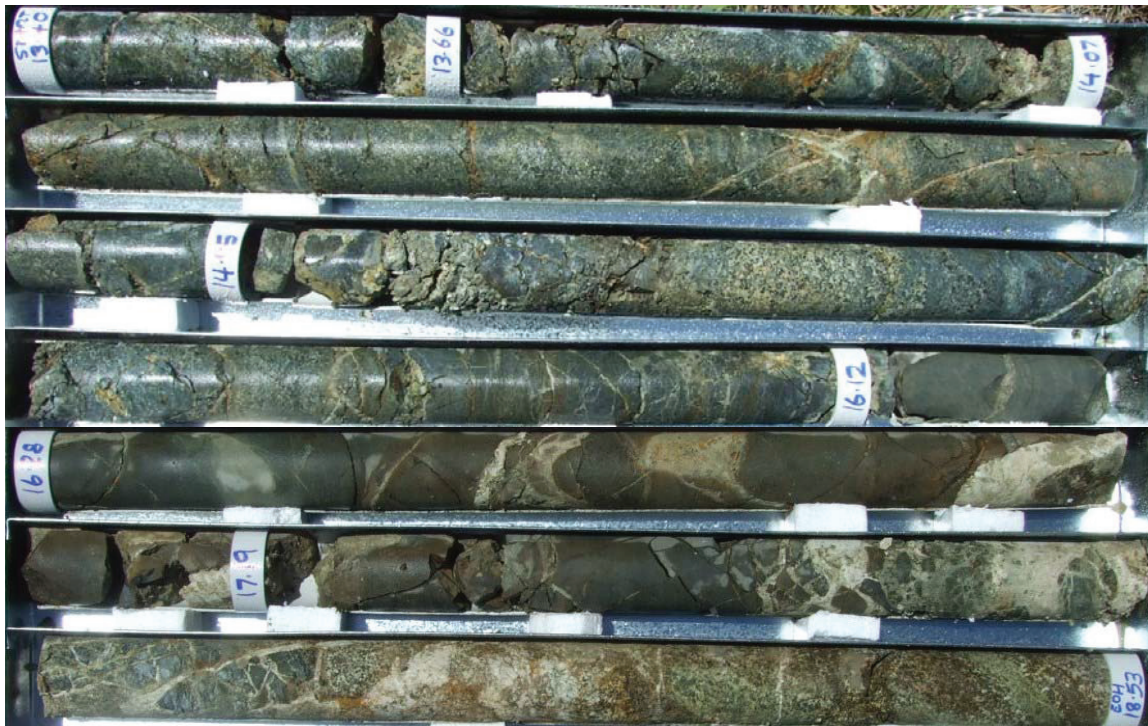
CORE PHOTO LOG

DEPARTMENT OF TRANSPORT & MAIN ROADS
 Geotechnical Branch
 35 Butterfield Street, HERSTON Qld 4006
 Phone 07 3066 3336



Department of
Transport and Main Roads

Project Name	Mackay – Ring Road		
Project No	FG6184	Date	29/10/14
Borehole No	BH150	TMR H No	12091
Location	QR North Coast Rail Overpass	Start Depth (m)	13.4
Detail	Pier 1	Finish Depth (m)	18.53
Chainage	9961m	Submitted By	M.Ensor
Remarks			



SCALE 1:5