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# Queensland Government

# GEOTECHNICAL BOREHOLE LOG

**FINAL** 18/03/2016

BOREHOLE No BH275

Sheet 1 of 2

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 H12427 REFERENCE No Mackay Ring Road PROJECT Port Rail Overpass COORDINATES 721199.5 E; 7663338.8 N LOCATION DATE STARTED 26/09/2015 FG6184 PLUNGE 90° GRID DATUM GDA 94 / MGA Z55 SURFACE RL 26.22m PROJECT No 242/10G/906 DRILLER Saxon Drilling HEIGHT DATUM A.H.D. DATE COMPLETED 27/09/2015 JOB No BEARING USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS INTACT STRENGTH DEFECT SPACING SAMPLES TESTS Ê LITHOLOGY RΙ DEPTH SAMP MATERIAL DESCRIPTION CORE REC % Silty CLAY with sand and gravel (Residual) Brown, moist, very stiff. Fine to coarse grained sand, (CL) subangular grains, fine to medium grained gravel, subangular grains, low plasticity. SPT 8. 8. 14 1.40m: becomes hard 24.62 (0) MICRODIORITE (Kgwu) D (1.67m) MW Is(50)=11.00 MPa MW: Grey brown, fine to coarse 1.97m-2.00m: BZ grained, porphyritic, very high 100 strength. Silicified. 2.30m-2.57m: BZ; Js: 30° to 40°; (<3/m); PI/Ro; TI; Fe Js: 70° to 80°; (2-3/m); PI/Ro; TI-OP; Is(50)=5.60 MPa Is(50)=7.90 MPa A (2.80m) MW Fe St; D (2.88m)-100 3.49m-3.60m: XW Cly zone (0) XW From 4.0m: Becoming brecciated, HW altered and clayey, XW XW 90 xw 5.23m-5.45m: HW zone; MW 67 XW (0) 5.53m-6.70m: HW zone: 100 HW 5.85m: Cored hole collapsing, run (0) NW casing to 6.30m 100 (0) HW XW (0) HW 100 XW 186 HW (0) 8m: Becoming HW 100 HW 8.24m-8.53m: BZ; Is(50)=8.80 MPa I (8.70m) MW UCS=45.60 MPa (9.17m) 100 HW 186 (700) Continued on next sheet REMARKS: Kgwu = Wundaru Granodiorite **LOGGED BY REVIEWED BY** T.Goosey S.Foley

TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

# **Queensland** Government

# **GEOTECHNICAL BOREHOLE LOG**

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

FINAL 18/03/2016

**BH275** BOREHOLE No

Sheet 2 of 2

H12427

REFERENCE No Mackay Ring Road PROJECT Port Rail Overpass COORDINATES 721199.5 E; 7663338.8 N LOCATION DATE STARTED 26/09/2015 GRID DATUM GDA 94 / MGA Z55 FG6184 PLUNGE 90° SURFACE RL 26.22m PROJECT No 242/10G/906 DRILLER Saxon Drilling HEIGHT DATUM A.H.D. DATE COMPLETED 27/09/2015 JOB No BEARING USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS INTACT STRENGTH DEFECT SPACING LITHOLOGY SAMPLES TESTS Ξ SAMPLE DEPTH ( RΙ MATERIAL DESCRIPTION CORE REC % ᇁᆂᆂᇗᅴᅿᆿᅟᅴᇜᇰᄓᇗᇂᇂᇦ (35) MICRODIORITE (Kgwu) A (10.15m) С SW: Cont'd 10m: Becoming SW (100) SW 100 Is(50)=7.10 MPa A (11.10m) (60) Is(50)=8.10 MPa D (11.25m) 14.85 GRANODIORITE (Kgwu) SW: Grey, medium grained, 100 porphyritic, very high strength. (92) Calcite veins throughout. 12.00m: VN: 60°; PI/Sm; CA; Js: 5° to 15°; (1-2/m); Pl/Ro; TI; Fe SW Js: 40° to 50°; (2-3/m); PI-St/Ro; TI; Is(50)=5.70 MPa A (12.58m)-Fe St; Is(50)=5.50 MPa D (12.70m) 13 13.12 100 Borehole completed at 13.10m 15 16 REMARKS: Kgwu = Wundaru Granodiorite **LOGGED BY REVIEWED BY** T.Goosey S.Foley TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

## **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.	FG 6184	Date	28/09/15
Borehole No.	BH 275	TMR H No.	H12427
Location	Port Rail Overpass Abutment B	Start Depth (m)	1.60
Detail		Finish Depth (m)	13.10
Chainage		Submitted By	BW
Remarks			-



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