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GEOTECHNICAL BOREHOLE LOG

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

FINAL 17/03/2016

BOREHOLE No BH281

Sheet 1 of 2

REFERENCE No H12433

Mackay Ring Road PROJECT COORDINATES 721023.7 E; 7658370.3 N Lagoon Creek LOCATION FG6184 PLUNGE 90° DATE STARTED 11/10/2015 GRID DATUM GDA 94 / MGA Z55 SURFACE RL 7.11m PROJECT No 242/10G/906 DRILLER Saxon Drilling HEIGHT DATUM A.H.D. DATE COMPLETED 12/10/2015 JOB No BEARING USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS INTACT DEFECT SPACING SAMPLES TESTS Ê LITHOLOGY STRENGTH RΙ SAMP MATERIAL DESCRIPTION CORE REC % Silty CLAY (Topsoil) Dark brown, dry to moist, firm. Medium plasticity. (CI) 6.11 Silty CLAY (Alluvium) SPT 2. 4. 3 Grey mottled orange brown, moist, Medium to high plasticity, trace (CI) rootlets. 4.81 SPT CLAY (Alluvium) Dark grey, moist, firm becoming very soft with depth. High plasticity, trace organics. (CH) SPT 3.41 U75 Clayey SAND (Alluvium) Dark grey, wet, loose. Medium to coarse grained. SPT (SC) 1.91 SPT Silty SAND (Alluvium) Orange and grey, moist, loose to medium dense. Fine to coarse grained sand. (SM) 6.00m: Becomes medium dense. Trace fine to medium grained SPT gravel, subrounded grains. N=13 0.41 Sandy GRAVEL (Alluvium) Orange and grey, wet, medium dense. Fine to coarse grained sand, (GP) SPT fine to medium gravel, subangular N=20 -0.59 Sandy CLAY (Alluvium) Pale green grey, moist, stiff. Fine grained sand, high plasticity. (CH) SPT 5, 6, 7 N=13 -1.69 GRANODIORITE (Kgwu) XW: Recovered as brown grey, moist, very dense, silty sand. Fine to 15, 26, 30/55 XW coarse grained sand. Continued on next sheet REMARKS: Kgwu = Wundaru Granodiorite **LOGGED BY REVIEWED BY** S.Foley C.Boyes TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

Queensland Government

GEOTECHNICAL BOREHOLE LOG

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BH281 BOREHOLE No

Sheet 2 of 2

H12433 REFERENCE No Mackay Ring Road PROJECT Lagoon Creek COORDINATES 721023.7 E; 7658370.3 N LOCATION FG6184 PLUNGE 90° DATE STARTED 11/10/2015 GRID DATUM GDA 94 / MGA Z55 SURFACE RL 7.11m PROJECT No 242/10G/906 DRILLER Saxon Drilling HEIGHT DATUM A.H.D. DATE COMPLETED 12/10/2015 JOB No BEARING USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS INTACT STRENGTH DEFECT SPACING LITHOLOGY SAMPLES TESTS Ξ SAMPLE DEPTH (RΙ MATERIAL DESCRIPTION (m) CORE REC % ᇁᆂᆂᇗᅴᅿᆿᅟᅴᇜᇰᄓᇗᇂᇂᇦ GRANODIORITE (Kgwu) \$W: Grey and pink, medium to М oarse grained, porphyritic, D (10.45m) Is(50)=4.50 MPa extremely high strength. s: 5° to 15°; (<3/m); Pl-Un/Sm-Ro; OP; Cn or Fe St; s: 20° to 40°; (~1/m); PI/Sm; OP; Cn UCS=77.10 MPa (11.25m) or Fe St; 100 189 (100) 10.24 to 10.40m: MICRODIORITE, fine to medium grained, massive, very high strength. Contact; 80°-90°, Un/Sm; Is(50)=5.60 MPa D (11.90m) Is(50)=6.50 MPa A (11.91m)-100 (77) 13 Is(50)=9.70 MPa Is(50)=5.90 MPa A (13.29m)-D (13.41m) Is(50)=10.00 MPa Is(50)=9.90 MPa D (14.18m)-A (14.26m)_ 14.41m-14.46m: HFZ; ☐ 14.71m-14.78m: Jointed D (14.90m<u>)</u>-Is(50)=7.70 MPa -7.89 100 15 Borehole completed at 15.00m 16 REMARKS: Kgwu = Wundaru Granodiorite **LOGGED BY REVIEWED BY** C.Boyes 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.	FG6184	Date	12/10/15
Borehole No.	BH 281	TMR H No.	H12433
Location	Lagoon Creek Bridge	Start Depth (m)	10.00
Detail	Abutment B, LHS	Finish Depth (m)	15.00
Chainage		Submitted By	M.Ensor
Remarks			

