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# Queensland Government

# GEOTECHNICAL BOREHOLE LOG

**FINAL** 17/03/2016

BOREHOLE No BH280

Sheet 1 of 2

FOR GEOTECHNICAL TERMS AND H12432 REFERENCE No SYMBOLS REFER FORM F:GEOT 017/8-2014 Mackay Ring Road PROJECT Lagoon Creek COORDINATES 721030.5 E; 7658344.2 N LOCATION FG6184 PLUNGE 90° DATE STARTED 08/10/2015 GRID DATUM GDA 94 / MGA Z55 SURFACE RL 7.28m PROJECT No 242/10G/906 DRILLER Saxon Drilling HEIGHT DATUM A.H.D. DATE COMPLETED 08/10/2015 JOB No BEARING USCS WEATHERING ADDITIONAL DATA INTACT DEFECT SPACING SAMPLES TESTS Ê LITHOLOGY AND TEST RESULTS STRENGTH RΙ DEPTH SAMPI MATERIAL DESCRIPTION (m) CORE REC % ᅾᆂᆂᆂᆋᆛᅿᆲᅵᇊᆼᇅᄛᇂᇂᇕ Silty CLAY (Topsoil) Dark brown, dry to moist, firm. (CI) Medium plasticity. 6.58 Silty CLAY (Alluvium) Pale grey mottled orange brown, moist, firm to stiff. SPT High plasticity, trace rootlets. СН LL=59% PI= 32% MC=30.5% LS= 14% 2.10m: becomes orange brown, SPT <75μm= 89% 4.48 Sandy CLAY (Alluvium) Grey, wet, very soft. SPT Fine grained sand, high plasticity. 11-57% DI- 2/19 MC=70.8% LS= 11% СН U75 Oedomete WD= 1.45 t/m3 4.00m: becomes Clayey SAND: D Dark grey, wet, very loose. SPT 2.78 SAND trace clay and gravel Grey and dark grey, wet, loose. Medium grained sand, fine grained SPT gravel, subrounded grains. (SP) 6.00m: Becomes pale grey. Fine to medium grained sand, trace silt. SPT 0.58 CLAY trace sand (Alluvium) Green grey mottled brown, moist, (CI) G SPT Fine to coarse grained sand, N=12 medium to high plasticity. -0.42GRANODIORITE (Kgwu) XW: Recovered as pale grey, moist, dense, silty sand trace clay. Fine to SPT 15, 15, 18 medium grained sand. N=33 XW SPT 14, 15, 20 N=35 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**

FINAL 17/03/2016

**BH280** BOREHOLE No

Sheet 2 of 2

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 H12432 REFERENCE No Mackay Ring Road PROJECT COORDINATES 721030.5 E; 7658344.2 N Lagoon Creek LOCATION DATE STARTED 08/10/2015 FG6184 PLUNGE 90° GRID DATUM GDA 94 / MGA Z55 SURFACE RL 7.28m PROJECT No 242/10G/906 DRILLER Saxon Drilling HEIGHT DATUM A.H.D. DATE COMPLETED 08/10/2015 JOB No BEARING USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS INTACT DEFECT SPACING LITHOLOGY SAMPLES TESTS Ê SAMPLE STRENGTH DEPTH ( RΙ MATERIAL DESCRIPTION CORE REC % ᇁᆂᆂᄫᅴᅿᆿᆸᇝᇰᄓᄫᇂᇂᇕ GRANODIORITE (Kgwu) 14, 20, 22 XW: (Cont'd) N=42 10.00m: becomes grey and pale grey. -3.77 11.05m-11.15m: VN; 55°, PI/Sm, (64) MICRODIORITE (Kgwu) FL, CA <4mm; A (11.20m) SW: Blue grey, fine grained, D (11.46m)massive, very high strength. Some calcite veins <1mm thick. Is(50)=4.90 MPa Is(50)=3.80 MPa (11.85m) Js: 5° to 15°; (<5/m); PI/Sm; some UCS=185.00 MPa CA Vr or Cn; Js: 30° to 45°; (<2/m); Pl-St/Sm; CA Vr or Cn; Is(50)=11.00 MPa Is(50)=15.00 MPa A (12.67m)-D (12.74m) 13 Is(50)=7.50 MPa A (13.62m) (81) 14.10m: VN; 40°, Un/Sm, FL, CA <3mm; Is(50)=7.70 MPa D (14.30m) 14.70m: VN; 40°-60°, Un/Sm, FL, Is(50)=4.10 MPa Is(50)=8.30 MPa A (14.81m) D (14.90m) 15 15.00m-15.20m: VN; 85°, Un/Sm, FL, CA; 100 (96) 16 -8.82 100 16.01m: VN; 60°, PI/Sm, FL, CA Borehole completed at 16.10m 17 19 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 Roa	d (Stage 2)				
Project No.	FG6184			Date		08/10/15
Borehole No.	BH 280			TMR H No.		H12432
Location	Lagoon Creek Bridge	е		Start Depth	(m)	11.05
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