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GEOTECHNICAL BOREHOLE LOG

BOREHOLE No	BH301
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REFERENCE NO	

DRAFT 28/01/2016

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 Mackay Ring Road PROJECT COORDINATES 721450.4 E; 7663585.1 N LOCATION FG6184 PLUNGE 90° DATE STARTED 26/09/2015 GRID DATUM GDA 94 / MGA Z55 SURFACE RL 17.62m PROJECT No DRILLER Saxon Drilling 242/10G/906 DATE COMPLETED 27/09/2015 JOB No HEIGHT DATUM A.H.D. BEARING USCS WEATHERING ADDITIONAL DATA INTACT DEFECT SPACING SAMPLES TESTS LITHOLOGY STRENGTH TEST RESULTS RΙ DEPTH SAMP MATERIAL DESCRIPTION CORE REC % 듀主프기국교 [민동이토동) Şilty GRAVEL (Fill) Clayey SILT trace gravel (Topsoil) Pale yellow brown, dry, stiff. Fine to medium grained gravel, angular grains, low plasticity. 16.52 Sandy Silty CLAY (Alluvium) 11. 9. 15 Pale brown, dry, very stiff. N=24 (CI) Fine grained sand. 15.82 Silty SAND trace gravel (Residual) Pale brown, dry, very dense. SPT Fine grained sand, fine grained 14, 14, 30/75 gravel, angular grains. 3.00m: trace fine to medium (SM) С grained gravel, angular grains. SPT Clay content increasing. N=23 SPT 6, 28, 30/135 13.12 MICRODIORITE XW: Recovered as pale green grey, moist, very dense, clayey gravel. SPT Fine to coarse grained sand, fine to 12.32 30, 30/40 5.28m-5.41m: XW clayey zone medium grained gravel, angular (0) HW 5.47m-5.55m: XW Clayey Zone grains possibly XW Calcite vein?? MW MICRODIORITE 5.75m-5.90m; SZ. brecciated Clavey XW HW: Green grey , fine to medium in part angular rock fragment 76.00m-6.11m: HRZ, HW calcite vein grained, low to medium strain ΜW 6.20m-6.28m: SZ brecciated clayey Js: 40° to 60°; (<6/m); PI/Sm; OP-TI; infill, angular rock fragment Cly Vr, or CA VN <2mm; MW Js: 70° to 80°; (<2/m); Pl-Un/Ro; OP; □ 6.60m-6.64m: CaVn 30° Pi/Sn, HW Cly Vr or CA VN; HW MW 10.54 100 (59) DOLERITE SW: Grey, fine grained, massive, SW very high strength Js: 40° to 60°; (<4/m); PI/Sm-Ro; TI; 7.71m-7.72m: CaVn 30° Pi/Sn MW 9.77 7.78m-7.83m: HFZ CA Vr <1mm or Cly Vr; H-VH s: 5° to 15°; (<2/m); PI/Sm; OP; Cn ■ 8.13m-8.18m: CaVn 30° Pi/Sn XW or Sinf; Clayey MICRODIORITE SW SW: Green grey, fine to medium grained, massive, medium strength. 8.83m-8.85m: CaVn 5° XW Clayey Js: 30° to 55°; (<5/m); PI/Sm-Ro; OP-8.93m-9.15m: Jn 90° Pi/Ro TI; Fe St or Cly Vr <1mm; XW 9.15m-9.25m: Sz, Clayey 100 Brecciated, angular rock fragments Js: 5° to 15°; (<2/m); PI/Sm-Ro; OP; (82)Clv Vr: SW Continued on next sheet **REMARKS: LOGGED BY REVIEWED BY** C.Boyes TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

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GEOTECHNICAL

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DRAFT 28/01/2016

BOREHOLE LOG FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 REFERENCE No Mackay Ring Road PROJECT COORDINATES 721450.4 E; 7663585.1 N LOCATION GRID DATUM GDA 94 / MGA Z55 FG6184 SURFACE RL 17.62m PLUNGE 90° DATE STARTED 26/09/2015 PROJECT No DRILLER Saxon Drilling 242/10G/906 BEARING $^{\circ}$ DATE COMPLETED 27/09/2015 HEIGHT DATUM A.H.D. JOB No ADDITIONAL DATA AND TEST RESULTS USCS WEATHERING INTACT STRENGTH DEFECT SPACING SAMPLES TESTS LITHOLOGY DEPTH (m) SAMPLE R.L. (m) MATERIAL DESCRIPTION CORE REC % ᇁᇻᆂᆂᇗᅴᅿᆿᅟᅴᇜᇰᄓᇗᇂᆘᇂᆒ MICRODIORITE SW: (Cont'd) SW 100 6.75 Borehole completed at 10.82m 15 16 **REMARKS: LOGGED BY REVIEWED BY** C.Boyes TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI