

Project Name: Regional
Project Code: REG **Site ID:** T247 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	Forestry track 6.2KM NE of Lake Barrine turnoff:2.6KM east of Boar Pocket Road:
Date Desc.:	30/06/76	Elevation:	800 metres
Map Ref.:	Sheet No. : 8063 1:100000	Rainfall:	1800
Northing/Long.:	145.679166666667	Runoff:	Moderately rapid
Easting/Lat.:	-17.225	Drainage:	Moderately well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Pgm	Substrate Material:	Granite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Hills
Morph. Type:	Ridge	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	17.6 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Dystrophic Brown Dermosol		Principal Profile Form:	Gn3.74
ASC Confidence:		Great Soil Group:	Xanthozem
All necessary analytical data are available.			

Site Disturbance:

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Brown (10YR4/3-Moist); ; Loam; Strong grade of structure, 5-10 mm, Cast; Weak consistence; AbundantClear change to -
A2	0.1 - 0.2 m	Brown (10YR4/3-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Angular blocky; Weak consistence; CommonClear change to -
B21	0.2 - 0.3 m	Yellowish brown (10YR5/5-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Angular blocky; Very firm consistence; FewGradual change to -
B22	0.3 - 0.45 m	Yellowish brown (10YR5/7-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Very firm consistence; FewGradual change to -
B22	0.45 - 0.6 m	Brownish yellow (10YR6/7-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Very firm consistence; FewGradual change to -
B3	0.6 - 0.9 m	Reddish yellow (7.5YR6/8-Moist); , 10YR76, 2-10% , Faint; , 2-10% , Faint; Sandy medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Weak consistence; FewGradual change to -
BC	0.9 - 1.2 m	Reddish yellow (7.5YR6/6-Moist); , 5YR58; , 10YR68; Sandy clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Common (1-5 per 100mm2) Medium (2-5mm) macropores, Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; FewGradual change to -
BC	1.2 - 1.5 m	Reddish yellow (7.5YR6/6-Moist); , 5YR58; , 10YR68; Sandy clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Common (1-5 per 100mm2) Medium (2-5mm) macropores, Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; FewGradual change to -
BC	1.5 - 1.8 m	; Heavy clay; Massive grade of structure; Very weak consistence;

Morphological Notes

BC Weathered granitic saprolite 7.5YR66 clay grit:

Observation Notes

60-150CM MICA VISIBLE:150-180CM VERY W'D GN SAPROLITE:1CM QZ VEIN AT >45CM:

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LAKE BARRINE

Observation ID: 1

[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO4 Digest
12_HF_FE	Total element - Fe(%) - HF/HClO4 Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO4 Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO4 Digest
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
2A1	Air-dry moisture content
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
9H1	Phosphate retention
MIN_EC	Exchange Capacity - Mineralogy
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_K2O	K2O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction