

Project Name: Regional
Project Code: REG **Site ID:** T383 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: M.D. Laffan	Locality:
Date Desc.: 23/02/84	Elevation: 1040 metres
Map Ref.: Sheet No. : 7963 1:100000	Rainfall: 1600
Northing/Long.: 145.429166666667	Runoff: No Data
Easting/Lat.: -17.274444444444	Drainage: Well drained

Geology

ExposureType: Existing vertical exposure	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: PH	Substrate Material: Rhyolite

Land Form

Rel/Slope Class: Rolling hills 90-300m 10-32%	Pattern Type: No Data
Morph. Type: Upper-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: No Data
Slope: 20 %	Aspect: 90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Humose Dystrophic Red Dermosol	Principal Profile Form: Gn3.14
ASC Confidence:	Great Soil Group: Red podzolic soil
All necessary analytical data are available.	

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Black (10YR2/1-Moist); Mottles; Mottles; Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Weak consistence; Field pH 6 (pH meter); Many, fine (1-2mm) roots;
A1	0.1 - 0.2 m	Black (10YR2/1-Moist); Mottles; Mottles; Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Weak consistence; Field pH 6 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
AB	0.2 - 0.3 m	Dark yellowish brown (10YR3/4-Moist); Mottles; Mottles; Light clay; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
B21	0.3 - 0.4 m	Yellowish red (5YR4/6-Moist); Mottles; Mottles; Light medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots;
B21	0.4 - 0.5 m	Yellowish red (5YR4/6-Moist); Mottles; Mottles; Light medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B22	0.5 - 0.6 m	Red (2.5YR4/8-Moist); Mottles; Mottles; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots;
B22	0.6 - 9 m	Red (2.5YR4/8-Moist); Mottles; Mottles; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots; Diffuse change to -
B3	0.9 - 1.2 m	Red (2.5YR4/8-Moist); Mottles; Mottles; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Few, fine (1-2mm) roots;

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B3 1.2 - 1.5 m Red (2.5YR4/8-Moist); Mottles; Mottles; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

RAINFOREST 16C:PARENT MATERIAL VERY STRONGLY W'D RHYOLITE BEDROCK:

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[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/HClO ₄ Digest
12_HF_FE	Total element - Fe(%) - HF/HClO ₄ Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO ₄ Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO ₄ Digest
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	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
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
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
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4C1	pH of 1:5 soil/1M potassium chloride extract - direct
6B3	Total organic carbon - high frequency induction furnace, infrared
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
9H1	Phosphate retention
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 (%)