

Project Name: Regional
Project Code: REG **Site ID:** T464 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	D.P.I. experiment farm: Leichardt block: site 55:
Date Desc.:	01/07/86	Elevation:	No Data
Map Ref.:	Sheet No. : 58 1:5000	Rainfall:	890
Northing/Long.:	147.315833333333	Runoff:	Slow
Easting/Lat.:	-19.8136111111111	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	CPg	Substrate Material:	Soil pit, 95 m deep,Porous, Igneous rock (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Pediment	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	180 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol		Principal Profile Form:	Dr2.12
ASC Confidence:		Great Soil Group:	Non-calcic brown soil
All necessary analytical data are available.			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.13 m	Dark brown (10YR3/3-Moist); ; Sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Gradual, Wavy change to -
A3	0.13 - 0.26 m	Dark brown (7.5YR3/3-Moist); ; Clay loam, sandy (Heavy); Massive grade of structure; Clear, Smooth change to -
B21	0.26 - 0.5 m	Red (2.5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Weak grade of structure, 20-50 mm, Prismatic; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Manganiferous, , Soft segregations; Diffuse change to -
B22	0.5 - 0.7 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Few (2 - 10 %), Manganiferous, , Soft segregations; Diffuse change to -
BC	0.7 - 0.95 m	Yellowish red (5YR5/8-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Weak grade of structure, 50-100 mm, Prismatic; Gradual change to -
C	0.95 - 1.1 m	Strong brown (7.5YR5/6-Moist); , 10YR82, 10-20% , 5-15mm, Distinct; , 5YR58, 10-20% , 5-15mm, Distinct; Clay loam;

Morphological Notes

Observation Notes

C HORIZON MOTTLES ARE WEATHERED FELSPARS MANGANESE NODULES ALSO OCCUR:

Site Notes

BURDEKIN VALLE

Observation ID: 1

[illegible]

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Laboratory Analyses Completed for this profile

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
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
15J1	Effective CEC
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ extractable
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 (%)