

Project Name: Regional
Project Code: REG **Site ID:** T415 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	B. Bateman D.P.I. trial site 'Pinnerendi'
Date Desc.:	16/09/85	Elevation:	760 metres
Map Ref.:	Sheet No. : 7861 1:100000	Rainfall:	774
Northing/Long.:	144.883333333333	Runoff:	Slow
Easting/Lat.:	-18.0333333333333	Drainage:	Well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Level
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Recently cultivated

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Mesotrophic Red Dermosol		Principal Profile Form:	Dr2.51
ASC Confidence:		Great Soil Group:	Red earth
All necessary analytical data are available.			

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1p	0 - 0.08 m	Dark reddish brown (2.5YR3/4-Moist); Reddish brown (2.5YR4/4-Dry); ; Sandy clay loam (Light); Weak grade of structure, 2-5 mm, Subangular blocky; Weak grade of structure, Subangular blocky; Earthy fabric; Dry; Very weak consistence; Common, very fine (0-1mm) roots; Clear, Wavy change to -
A2p	0.08 - 0.15 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam; Weak grade of structure, <2 mm, Subangular blocky; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; Many (20 - 50 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Common, very fine (0-1mm) roots; Clear, Wavy change to -
B1	0.15 - 0.25 m	Dusky red (10R3/4-Moist); ; Sandy medium clay; Weak grade of structure, <2 mm, Subangular blocky; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Few, very fine (0-1mm) roots; Gradual, Wavy change to -
B21	0.25 - 0.5 m	Dark red (10R3/6-Moist); ; Light medium clay; Weak grade of structure, <2 mm, Subangular blocky; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Few, very fine (0-1mm) roots; Diffuse, Wavy change to -
B22	0.5 - 0.7 m	Red (10R4/6-Moist); Red (10R4/6-Dry); , 10YR78, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Light medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Few, very fine (0-1mm) roots;
B22	0.7 - 0.9 m	Red (10R4/6-Moist); Red (10R4/6-Dry); , 10YR78, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Light medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Nodules;

Morphological Notes

Observation Notes

B22n IS EARTHY MATRIX KIDNEY SHAPED IRON RICH NODULES:

Site Notes

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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_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
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
6B3	Total organic carbon - high frequency induction furnace, infrared
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
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_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance