

Project Name: BL
Project Code: BL **Site ID:** B324 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	19/07/57	Elevation:	300 metres
Map Ref.:	Sheet No. : 8942 1:100000	Rainfall:	584
Northing/Long.:	150.033333333333	Runoff:	Moderately rapid
Easting/Lat.:	-27.5236111111111	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qs	Substrate Material:	Auger boring, 2 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Plateau
Morph. Type:	No Data	Relief:	18 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Magnesian Mottled-Hypersol Red Sodosol		Principal Profile Form:	Dr3.22
ASC Confidence:		Great Soil Group:	No suitable
All necessary analytical data are available.			

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, . . *Species includes - None recorded
Mid Strata - Tree, 3.01-6m, . *Species includes - Acacia species
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, subrounded, Substrate material

Profile Morphology

A1	0 - 0.14 m	Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam (Heavy); Massive grade of structure; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 5.5 (pH meter); Many, very fine (0-1mm) roots; Gradual change to -
A2	0.15 - 0.28 m	Yellowish red (5YR4/6-Moist); ; Fine sandy loam (Heavy); Massive grade of structure; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 4.9 (pH meter); Many, very fine (0-1mm) roots; Gradual change to -
B1	0.28 - 0.53 m	Red (2.5YR4/5-Moist); ; Clay loam, fine sandy; Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 4.9 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
2B2b	0.56 - 0.86 m	Dark red (10R3/5-Dry); , 10YR42, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 5.7 (pH meter); Gradual change to -
2B2b	0.86 - 1.02 m	Dark red (2.5YR3/5-Dry); , 10YR63, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Light clay; Moderate grade of structure, Angular blocky; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.2 (pH meter); Gradual change to -
2B2b	1.07 - 1.37 m	Dark red (2.5YR3/5-Dry); , 10YR63, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Clay loam; Moderate grade of structure, Angular blocky; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.9 (pH meter); Gradual change to -
2B2b	1.37 - 1.78 m	Dark red (10R3/8-Dry); , 10YR63, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Massive grade of structure; Dry; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 6.1 (pH meter);

Morphological Notes

2B2b Silicified clay

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Observation Notes

LOW PLATEAU

Site Notes

TARA

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
MIN_EC	Exchange Capacity - Minerology
MIN_NR_K2O	Kaolin minerals
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction