

Project Name: LBV
Project Code: LBV **Site ID:** B1 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/10/48	Elevation:	19 metres
Map Ref.:	Sheet No. : 8358 1:100000	Rainfall:	800
Northing/Long.:	147.208888888889	Runoff:	Moderately rapid
Easting/Lat.:	-19.777222222222	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	No Data	Relief:	4 metres
Elem. Type:	Levee	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Mottled Eutrophic Red Chromosol		Principal Profile Form:	Dr3.31
ASC Confidence:		Great Soil Group:	Red podzolic soil
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, , Mid-dense. *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); ; Fine sandy loam; Massive grade of structure; Fine, (0 - 5) mm crack; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 6.6 (pH meter); Common, fine (1-2mm) roots; Clear change to -
A2	0.1 - 0.33 m	Light brownish grey (10YR6/2-Moist); , 10YR41; Fine sandy loam; Massive grade of structure; Fine, (0 - 5) mm crack; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 6.6 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B1	0.36 - 0.48 m	Pale brown (10YR6/3-Moist); , 5YR46; Fine sandy clay loam; Massive grade of structure; Fine, (0 - 5) mm crack; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 6.6 (pH meter); Few, fine (1-2mm) roots; Clear change to -
B21	0.51 - 0.81 m	Reddish brown (2.5YR4/4-Moist); , 2.5Y72; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Fine, (0 - 5) mm crack; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 6.6 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B22	0.81 - 1.14 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Fine, (0 - 5) mm crack; Moist; Firm consistence; Field pH 7 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B31	1.14 - 1.52 m	Brown (7.5YR4/4-Moist); , 10YR66; Medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Fine, (0 - 5) mm crack; Moist; Firm consistence; Field pH 7.5 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B32	1.52 - 1.98 m	Brown (7.5YR4/4-Moist); , 10YR66; Light clay; Weak grade of structure, Angular blocky; Moist; Weak consistence; Field pH 7.6 (pH meter); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

GRASS ROOTS CONCENTRATED DOWN CRACKS:

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BURDEKIN VALLE

Site Notes

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[illegible]

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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_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
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5A2	Chloride - 1:5 soil/water extract, automated colour
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_HCL	Total element - P(%) - By boiling HCl
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