

Project Name: LBV
Project Code: LBV **Site ID:** B44 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	06/09/50	Elevation:	60 metres
Map Ref.:	Sheet No. : 8357 1:100000	Rainfall:	750
Northing/Long.:	147.4	Runoff:	Very slow
Easting/Lat.:	-20.05	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial plain
Morph. Type:	No Data	Relief:	No Data
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
Calcic Subnatric Grey Sodosol		Principal Profile Form:	Dg1.32
ASC Confidence:		Great Soil Group:	Solodic 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
Mid Strata - Shrub, , Isolated plants. *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus papuana, Grevillea striata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.03 m	Grey (10YR5/1-Moist); ; Loam; Massive grade of structure; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, coarse fragments; Field pH 6.6 (pH meter); Sharp change to -
B2	0.04 - 0.18 m	Light grey (7.5YR7/0-Moist); ; Heavy clay; Weak grade of structure, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Wet; Moderately plastic; Normal plasticity; 2-10%, fine gravelly, 2-6mm, rounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7 (pH meter); Gradual change to -
B2	0.18 - 0.3 m	Grey (7.5YR5/0-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Wet; Moderately plastic; Normal plasticity; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.5 (pH meter); Gradual change to -
B2	0.3 - 0.61 m	Dark grey (7.5YR4/0-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Wet; Moderately plastic; Normal plasticity; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.8 (pH meter); Gradual change to -
B2	0.61 - 0.81 m	Dark grey (7.5YR4/0-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Wet; Moderately plastic; Normal plasticity; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.8 (pH meter); Diffuse change to -
B3	0.91 - 1.37 m	Pale yellow (2.5Y7/4-Moist); ; Heavy clay; Weak grade of structure, Angular blocky; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.6 (pH meter); Diffuse change to -
B3	1.52 - 1.98 m	Pale yellow (5Y8/3-Moist); ; Heavy clay; Weak grade of structure, Angular blocky; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.1 (pH meter);

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Observation Notes

Site Notes

BURDEKIN VALLE

Morphological Notes

Observation ID: 1

[illegible]

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - 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
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
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