

Project Name: LBV
Project Code: LBV **Site ID:** B39 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	08/11/49	Elevation:	40 metres
Map Ref.:	Sheet No. : 8357 1:100000	Rainfall:	750
Northing/Long.:	147.183333333333	Runoff:	Very slow
Easting/Lat.:	-20.133333333333	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	SDA	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: Moderate (gully)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Hypernatric Grey Sodosol		Principal Profile Form:	Dy2.43
ASC Confidence:		Great Soil Group:	Solonetz
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, , Very sparse. *Species includes - Chloris species
Mid Strata - Shrub, , Mid-dense. *Species includes - None recorded
Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eremophila mitchellii, Eucalyptus species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.04 m	Grey (10YR6/1-Moist); ; Loam; Weak grade of structure, Platy; Massive grade of structure; Dry; Weak consistence; Field pH 6.4 (pH meter); Sharp change to -
A2	0.04 - 0.06 m	Light grey (10YR7/2-Moist); ; Loam; Weak grade of structure, Platy; Massive grade of structure; Dry; Weak consistence; Field pH 6.6 (pH meter); Abrupt change to -
B21	0.06 - 0.2 m	Grey (10YR5/1-Moist); ; Silty medium clay; Weak grade of structure, Columnar; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; Field pH 7.8 (pH meter); Gradual change to -
B22	0.2 - 0.51 m	Greyish brown (10YR5/2-Moist); ; Silty medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; Field pH 9 (pH meter); Gradual change to -
B23	0.53 - 0.81 m	Greyish brown (10YR5/2-Moist); ; Silty clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH meter); Diffuse change to -
B31	0.81 - 1.22 m	Dark grey (10YR4/1-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.6 (pH meter); Diffuse change to -
B32	1.27 - 1.52 m	Light brownish grey (2.5Y6/2-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.8 (pH meter);

Morphological Notes

Observation Notes

CLAY EXPOSED HAS EVIDENCE OF LARGE DOMED TOPS ~ 45CM ACROSS:NO VERTICALCRACKING IN PIT:

Site Notes

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BURDEKIN VALLE

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
19B_NR	Calcium Carbonate (CaCO ₃) - 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