

Project Name: LBV
Project Code: LBV **Site ID:** B43 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	24/08/50	Elevation:	60 metres
Map Ref.:	Sheet No. : 8357 1:100000	Rainfall:	750
Northing/Long.:	147.333333333333	Runoff:	Very slow
Easting/Lat.:	-20.2333333333333	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	CZA	Substrate Material:	Auger boring, 1.8 m deep,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): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous Self-Mulching Black Vertosol		Principal Profile Form:	Ug5.16
ASC Confidence:		Great Soil Group:	Black earth
No analytical data are available but confidence is fair.			

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

Vegetation:

Mid Strata - , , . *Species includes - Unknown species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.03 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Granular; Moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.2 (pH meter); Abrupt change to -
B2	0.03 - 0.43 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 100-200 mm, Lenticular; Moderate grade of structure, 5-10 mm, Angular blocky; Wet; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.9 (pH meter); Diffuse change to -
B2	0.43 - 0.94 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 100-200 mm, Lenticular; Moderate grade of structure, 5-10 mm, Angular blocky; Wet; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.9 (pH meter); Diffuse change to -
B2	1.02 - 1.37 m	Dark grey (10YR4/1-Moist); , 10YR42; Heavy clay; Moderate grade of structure, 100-200 mm, Lenticular; Moderate grade of structure, 5-10 mm, Angular blocky; Wet; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 8.1 (pH meter); Diffuse change to -
B2	1.37 - 1.73 m	Dark greyish brown (10YR4/2-Moist); , 10YR51; , 10YR76; Heavy clay; Weak grade of structure, Angular blocky; Moist; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 8.2 (pH meter); Diffuse change to -
C	1.8 - 2.29 m	Brownish yellow (10YR6/6-Moist); , 10YR42; Fine sandy medium clay; Massive grade of structure; Moist; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 9 (pH meter);

Morphological Notes

Observation Notes

LIGHT CALCIUM CARBONATE ON PUFF SURFACE:

Site Notes

BURDEKIN VALLE

Observation ID: 1

[illegible]

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Laboratory Analyses Completed for this profile

19B_NR	Calcium Carbonate (CaCO3) - 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
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