

Project Name: LBV
Project Code: LBV **Site ID:** B31 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	19/08/49	Elevation:	40 metres
Map Ref.:	Sheet No. : 8358 1:100000	Rainfall:	750
Northing/Long.:	147.029166666667	Runoff:	Moderately rapid
Easting/Lat.:	-19.797222222222	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, 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): Loose

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Mottled-Hypernatric Grey Sodosol		Principal Profile Form:	Dy5.43
ASC Confidence:		Great Soil Group:	Solodized solonetz
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, , Sparse. *Species includes - Heteropogon contortus, Heteropogon triticeus
Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; Field pH 5.6 (pH meter); Few, very fine (0-1mm) roots; Clear change to -
A2	0.08 - 0.23 m	Light grey (10YR7/1-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Abrupt change to -
B2	0.25 - 0.56 m	Dark greyish brown (10YR4/2-Moist); , 10YR64; Sandy medium clay; Strong grade of structure, 100-200 mm, Columnar; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, , Concretions; Field pH 6.9 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B2	0.61 - 1.04 m	Pale brown (10YR6/3-Moist); , 10YR66; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.6 (pH meter); Diffuse change to -
BC	1.12 - 1.27 m	Pale brown (10YR6/3-Moist); , 7.5YR66; Sandy clay loam; Massive grade of structure; Moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH meter); Diffuse change to -
BC	1.42 - 2.08 m	Pale brown (10YR6/3-Moist); , 7.5YR66; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.4 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

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[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