

Project Name: LBV
Project Code: LBV **Site ID:** B68 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble	Locality:
Date Desc.: 27/09/50	Elevation: 75 metres
Map Ref.: Sheet No. : 8358 1:100000	Rainfall: 850
Northing/Long.: 147.366666666667	Runoff: Slow
Easting/Lat.: -19.85	Drainage: Imperfectly drained

Geology

ExposureType: Soil pit	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: SDR	Substrate Material: Auger boring, 1.7 m deep, Non-porous, dense, Igneous rock (unidentified)

Land Form

Rel/Slope Class: Level plain <9m <1%	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 Mottled-Mesonatric Grey Sodosol	Principal Profile Form: Dy3.43
ASC Confidence:	Great Soil Group: Solodized solonetz
No analytical data are available but confidence is fair.	

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

Vegetation: Low Strata - Tussock grass, , Isolated clumps. *Species includes - Heteropogon contortus, Chloris species
 Mid Strata - Shrub, , Isolated plants. *Species includes - Acacia farnesiana, Eremophila mitchellii
 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 - 0.04 m	Light brownish grey (10YR6/2-Moist); ; Loam; Weak grade of structure, Platy; , Angular blocky; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 7 (pH meter); Clear change to -
A2	0.04 - 0.08 m	White (10YR8/1-Moist); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm); ; Field pH 7.2 (pH meter); Abrupt, Irregular change to -
B21	0.08 - 0.2 m	Dark greyish brown (10YR4/2-Moist); , 2.5Y52; Heavy clay; Strong grade of structure, 100-200 mm, Columnar; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm); ; Field pH 7.2 (pH meter); Gradual change to -
B22	0.2 - 0.38 m	Dark grey (10YR4/1-Moist); , 2.5Y42; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm); ; Field pH 8.8 (pH meter); Diffuse change to -
B23	0.38 - 0.86 m	Brown (10YR5/3-Moist); , 2.5Y53; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.2 (pH meter); Diffuse change to -
B24	0.86 - 1.32 m	Greyish brown (2.5Y5/2-Moist); , 2.5Y63; Heavy clay; Massive grade of structure; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm); ; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Diffuse change to -
B3	1.32 - 1.63 m	Greyish brown (2.5Y5/2-Moist); , 2.5Y64; Heavy clay; Massive grade of structure; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm); ; Field pH 8.4 (pH meter); Diffuse change to -

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C 1.68 - 2.08 m Olive yellow (2.5Y6/6-Moist); , 2.5Y80; Loam; Massive grade of structure; 10-20%, coarse
gravelly, 20-60mm, Substrate material, coarse fragments; Field pH 8.6 (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

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