

**Project Name:** LBV  
**Project Code:** LBV      **Site ID:** B72      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	
<b>Date Desc.:</b>	10/11/50	<b>Elevation:</b>	40 metres
<b>Map Ref.:</b>	Sheet No. : 8358 1:100000	<b>Rainfall:</b>	850
<b>Northing/Long.:</b>	147.316666666667	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-19.816666666667	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	CZS	<b>Substrate Material:</b>	Auger boring, 3 m deep,Porous, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Hardsetting

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Calcic Hypernatric Black Sodosol		<b>Principal Profile Form:</b>	Dd1.33
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	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 - Heteropogon contortus, Aristida species  
Mid Strata - Shrub, , Very sparse. \*Species includes - Atalaya hemiglauca  
Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus papuana, Grevillea striata

**Surface Coarse Fragments:** 0-2%, coarse gravelly, 20-60mm, angular, Metamorphic rock (unidentified)

**Profile Morphology**

A1	0 - 0.06 m	Pale brown (10YR6/3-Dry); ; Loam; Weak grade of structure, Platy; Massive grade of structure; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 6.6 (pH meter); Sharp, Irregular change to -
B2	0.06 - 0.16 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 100-200 mm, Prismatic; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Field pH 7.5 (pH meter); Gradual change to -
B2	0.16 - 0.48 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.1 (pH meter); Gradual change to -
B2	0.48 - 0.74 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.1 (pH meter); Diffuse change to -
B2	0.74 - 0.99 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.1 (pH meter); Diffuse change to -
B2	0.99 - 1.52 m	Pale yellow (2.5Y8/4-Moist); ; Heavy clay; Weak grade of structure, Angular blocky; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.2 (pH meter);

**Morphological Notes**

**Observation Notes**

**Site Notes**

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BURDEKIN VALLE

**Observation ID: 1**

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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 <sub>3</sub> ) - 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