

**Project Name:** LBV  
**Project Code:** LBV      **Site ID:** B61      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	C.H. Thompson	<b>Locality:</b>	
<b>Date Desc.:</b>	26/10/50	<b>Elevation:</b>	20 metres
<b>Map Ref.:</b>	Sheet No. : 8358    1:100000	<b>Rainfall:</b>	850
<b>Northing/Long.:</b>	147.4	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-19.7833333333333	<b>Drainage:</b>	Imperfectly drained

#### Geology

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	PZG	<b>Substrate Material:</b>	Auger boring, 1.4 m deep, Igneous rock (unidentified)

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<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
Mottled Mesotrophic Yellow Chromosol		<b>Principal Profile Form:</b>	Dy2.23
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	No suitable group
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  
Mid Strata - Shrub, , Very sparse. \*Species includes - Planchonia careya, Grevillea striata  
Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - None Recorded

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A1	0 - 0.1 m	Greyish brown (2.5Y5/2-Moist); ; Sandy loam; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, rounded, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.7 (pH meter); Clear change to -
A3	0.1 - 0.18 m	Light olive brown (2.5Y5/4-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, rounded, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.7 (pH meter); Gradual change to -
B1	0.18 - 0.3 m	Reddish yellow (7.5YR6/8-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.3 (pH meter); Gradual change to -
B2	0.3 - 0.66 m	Reddish yellow (7.5YR6/8-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.4 (pH meter); Diffuse change to -
B2	0.74 - 0.94 m	Brownish yellow (10YR6/6-Moist); , 10YR53; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.5 (pH meter); Diffuse change to -
B2	0.94 - 1.22 m	Brownish yellow (10YR6/6-Moist); , 10YR53; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); Diffuse change to -
B3	1.37 - 1.68 m	Light yellowish brown (10YR6/4-Moist); ; Light clay; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.6 (pH meter);

#### Morphological Notes

#### Observation Notes

#### Site Notes

BURDEKIN VALLE

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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