

**Project Name:** LBV  
**Project Code:** LBV      **Site ID:** B30      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	I. Nankivell	<b>Locality:</b>	
<b>Date Desc.:</b>	01/08/49	<b>Elevation:</b>	45 metres
<b>Map Ref.:</b>	Sheet No. : 8258 1:100000	<b>Rainfall:</b>	750
<b>Northing/Long.:</b>	146.977777777778	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-19.79	<b>Drainage:</b>	Imperfectly drained

#### Geology

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	CZA	<b>Substrate Material:</b>	Auger boring, 2 m deep, Porous, Unconsolidated material (unidentified)

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<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
Hypocalcic Hypernatric Grey Sodosol		<b>Principal Profile Form:</b>	Dy2.33
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	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 - Chloris species, Sporobolus caroli  
Tall Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Eremophila mitchellii, Atalaya hemiglauc

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

#### Profile Morphology

A1	0 - 0.05 m	Light brownish grey (10YR6/2-Moist); ; Sandy loam; Massive grade of structure; Dry; Very weak consistence; 0-2%, medium gravelly, 6-20mm, rounded, coarse fragments; Field pH 6 (pH meter); Common, very fine (0-1mm) roots; Abrupt change to -
B21	0.05 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 10YR53; Sandy medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, rounded, coarse fragments; Field pH 7.8 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
B22	0.33 - 0.51 m	Pale brown (10YR6/3-Moist); , 10YR52; Sandy medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, rounded, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Diffuse change to -
B23	0.51 - 0.66 m	Greyish brown (10YR5/2-Moist); , 10YR56; , 10YR53; Sandy medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, rounded, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.4 (pH meter); Diffuse change to -
B31	0.66 - 0.89 m	Brown (10YR5/3-Moist); , 2.5Y42; , 10YR51; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, rounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Abrupt change to -
B32	0.89 - 1.14 m	Light yellowish brown (2.5Y6/4-Moist); , 10YR63; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, rounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.6 (pH meter); Diffuse change to -
B33	1.14 - 1.52 m	Greyish brown (2.5Y5/2-Moist); , 2.5Y64; Sandy medium clay; Massive grade of structure; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.8 (pH meter);

#### Morphological Notes

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**Site Notes**

BURDEKIN VALLE

**Observation Notes**

**Observation ID: 1**

[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 <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