

**Project Name:** LBV  
**Project Code:** LBV      **Site ID:** B65      **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>	09/11/50	<b>Elevation:</b>	20 metres
<b>Map Ref.:</b>	Sheet No. : 8358    1:100000	<b>Rainfall:</b>	850
<b>Northing/Long.:</b>	147.25	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-19.8333333333333	<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, 2 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, Cracking

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Bleached Calcic Brown Chromosol		<b>Principal Profile Form:</b>	Dy2.43
<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, , Very sparse. \*Species includes - Heteropogon contortus, Chloris species  
Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Grevillea striata, Eucalyptus tessellaris,

Eucalyptus

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

**Profile Morphology**

A1	0 - 0.1 m	Greyish brown (10YR5/2-Moist); ; Loam; Weak grade of structure, 2-5 mm, Platy; Massive grade of structure; Dry; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.3 (pH meter); Gradual change to -
A2	0.1 - 0.18 m	Light grey (10YR7/2-Moist); ; Loam; Massive grade of structure; Dry; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.8 (pH meter); Sharp, Irregular change to -
B21	0.18 - 0.46 m	Brown (10YR5/3-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.2 (pH meter); Diffuse change to -
B22	0.46 - 0.76 m	Brown (10YR5/3-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Diffuse change to -
B3	0.84 - 1.09 m	Light yellowish brown (10YR6/4-Moist); , 10YR52; Light medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.4 (pH meter); Diffuse change to -
B3	1.19 - 1.8 m	Greyish brown (10YR5/2-Moist); , 10YR64; Medium clay; Massive grade of structure; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.4 (pH meter);

**Morphological Notes**

**Observation Notes**

**Site Notes**

BURDEKIN VALLE

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Comol (+)/kg				%
0 - 0.1	6.3H	0.01B	5.8K	4.1	0.3	0.3	8.4D		19.1E	
0.1 - 0.18	6.8H	0.02B								
0.18 - 0.46	8.2H	0.15B	7.4K	15.7	10.5	0.19	1.8D		35.6E	
0.46 - 0.76	8.8H	0.53B								
0.84 - 1.09	9.4H	0.31B	6.6K	10.8	8.6	0.23			26.2E	
1.19 - 1.8	9.4H	0.27B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1		1.3E	5C	0.015F	0.09B				1C	54	23	20
0.1 - 0.18									2C	52	24	21
0.18 - 0.46	0.08C								1C	41	13	44
0.46 - 0.76	0.34C							3	1C	39	18	39
0.84 - 1.09	2.7C							5	4C	40	16	34
1.19 - 1.8	1.1C							3	2C	36	20	40

[illegible]

**Project Name:** LBV  
**Project Code:** LBV      **Site ID:** B65      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**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