

**Project Name:** LBV  
**Project Code:** LBV      **Site ID:** B75      **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>	12/11/50	<b>Elevation:</b>	75 metres
<b>Map Ref.:</b>	Sheet No. : 8357 1:100000	<b>Rainfall:</b>	750
<b>Northing/Long.:</b>	147.266666666667	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-20.2333333333333	<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>	Soil pit, 1.1 m deep, Slightly porous, Igneous rock (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Mid-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):** Loose

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Eutrophic Mottled-Mesonatric Yellow Sodosol		<b>Principal Profile Form:</b>	Dy5.81
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Soloth

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, , . \*Species includes - Heteropogon contortus, Chloris species  
Mid Strata - Shrub, , Sparse. \*Species includes - Planchonia careya  
Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - None Recorded

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

**Profile Morphology**

A11	0 - 0.1 m	Light brownish grey (10YR6/2-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Field pH 6.2 (pH meter); Abundant, fine (1-2mm) roots; Gradual change to -
A12	0.1 - 0.3 m	Pale brown (10YR6/3-Moist); ; Coarse sand; Massive grade of structure; Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Field pH 6.3 (pH meter); Gradual change to -
A2	0.3 - 0.43 m	Light grey (10YR7/2-Moist); ; Coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Substrate material, coarse fragments; Field pH 6.5 (pH meter); Abrupt, Wavy change to -
B2	0.43 - 0.74 m	Light yellowish brown (10YR6/4-Moist); , 10YR63; Clay loam, coarse sandy; Moderate grade of structure, 200-500 mm, Columnar; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Substrate material, coarse fragments; Field pH 6.6 (pH meter); Diffuse change to -
B2	0.79 - 1.07 m	Brownish yellow (10YR6/8-Moist); , 10YR53; Clay loam, coarse sandy; Massive grade of structure; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Substrate material, coarse fragments; Field pH 5.5 (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				Cmol	(+)/kg			%
0 - 0.1	6.2H	0.005B								
0.1 - 0.3	6.3H	0.004B								
0.3 - 0.43	6.5H	0.004B								
0.43 - 0.74	6.6H	0.006B								
0.79 - 1.07	5.5H	0.037B								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.31E	2C	0.002F	0.02B			5	60C	32	4	3
0.1 - 0.3												
0.3 - 0.43								25	62C	25	6	7
0.43 - 0.74												
0.79 - 1.07								29	49C	17	5	27

[illegible]

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**Laboratory Analyses Completed for this profile**

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