LBV **Project Name:**

Observation ID: 1 **Project Code:** LBV Site ID: **B61**

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Locality: Desc. By: C.H. Thompson

Date Desc.: Elevation: 26/10/50 20 metres Map Ref.: Sheet No.: 8358 1:100000 Rainfall: 850

Northing/Long.: Runoff: 147.4 Moderately rapid Easting/Lat.: -19.78333333333333 Drainage: Imperfectly drained

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

Geol. Ref.: Substrate Material: PZG Auger boring, 1.4 m deep, Igneous rock

(unidentified)

Land Form

Rel/Slope Class: No Data Pattern Type: Rises Morph. Type: Lower-slope Relief: No Data Elem. Type: Hillslope Slope Category: No Data Aspect: No Data Slope: 0 %

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A Mottled Mesotrophic Yellow Chromosol **Principal Profile Form:** Dy2.23

ASC Confidence: Great Soil Group: 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 -
А3	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 Reddish yellow (7.5YR6/8-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular 0.3 - 0.66 m 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 Light yellowish brown (10YR6/4-Moist); ; Light clay; Massive grade of structure; Moist; Very weak 1.37 - 1.68 m

consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.6 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

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

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

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable	Cations K	Na	Exchangeable	CEC	E	CEC	E	SP
m		dS/m	Ca	Mg	ĸ	Na Acidity Cmol (+)/kg					9,	6
0 - 0.1 0.1 - 0.18	6.7H 6.7H 6.3H	0.01B 0.01B	4.4K	1.8	0.34	0.03	3.2D		9).8E		
0.18 - 0.3 0.3 - 0.66 0.74 - 0.94	6.4H 7.5H	0.01B 0.01B 0.01B		3.6	0	0.38	6.2D		14	4.1E		
0.94 - 1.22 1.37 - 1.68	9H 9.6H	0.01B 0.09B 0.11B			0.15	2.2			19	9.9E		
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Tota K %	I Bulk Density Mg/m3		CS I	ize Ar FS %	nalysis Silt (Clay
0 - 0.1 0.1 - 0.18 0.18 - 0.3 0.3 - 0.66 0.74 - 0.94 0.94 - 1.22 1.37 - 1.68	0.730	0.82E	6C	0.019F	0.0	5B		9 9 9 3	43C 40C 34C 19C 22C	32 30 25 16	6 6 6 5	18 24 35 58 49
Depth	COLE	COLE Gravimetric/Volumetric Water Contents K sat K unsat										
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m	1 Bar 3	5 Bar	15 Bar	mm/h	ı	mm/h	

0 - 0.1 0.1 - 0.18 0.18 - 0.3 0.3 - 0.66 0.74 - 0.94 0.94 - 1.22 1.37 - 1.68

LBV **Project Name:**

Project Code: LBV Site ID: B61 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 - meg per 100g of soil - Not recorded

15_NR_K Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded 15_NR_MG Exch. basic cations (Na++) - med per 100g of soil - Not recorded Calcium Carbonate (CaCO3) - Not recorded 15_NR_NA

19B_NR

Loss on Ignition (%) 2_LOI Air-dry moisture content 2A1

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

5_NR Water soluble Chloride - Cl(%) - Not recordede

Organic carbon (%) - Not recorded 6Z 7_NR Total nitrogen (%) - Not recorded Available P (mg/kg) - Not recorded Total element - P(%) - Not recorded 9_NR 9A_NR

P10_GRAV Gravel (%)

P10_NR_C Clay (%) - Not recorded

Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_CS P10_NR_FS P10_NR_Z Silt (%) - Not recorded