

Project Name: LBV
Project Code: LBV **Site ID:** B4 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/10/48	Elevation:	35 metres
Map Ref.:	Sheet No. : 8358 1:100000	Rainfall:	800
Northing/Long.:	147.195833333333	Runoff:	Moderately rapid
Easting/Lat.:	-19.879166666667	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Pzg	Substrate Material:	Soil pit, 0.7 m deep, Slightly porous, Metamorphic rock (unidentified)

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Plain
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	7 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached Calcic Grey Chromosol		Principal Profile Form:	Dy3.42
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
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 triticeus

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, cobbly, 60-200mm, angular, Quartz

Profile Morphology

A1	0 - 0.15 m	Grey (10YR5/1-Moist); ; Sandy loam; Massive grade of structure; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Dry; Weak consistence; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.6 (pH meter); Diffuse change to -
A2	0.18 - 0.28 m	Light grey (10YR7/2-Moist); ; Sandy clay loam (Light); Massive grade of structure; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Dry; Weak consistence; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.6 (pH meter); Clear change to -
B1	0.28 - 0.36 m	Greyish brown (10YR5/2-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, angular, Substrate material, coarse fragments; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.7 (pH meter); Diffuse change to -
B2	0.36 - 0.64 m	Brownish yellow (10YR6/6-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.1 (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 - 0.15	6.6H	0.01B	4.3K	2.7	0.3	0.08	3.1D		10.5E	
0.18 - 0.28	6.6H	0.007B								
0.28 - 0.36	6.7H	0.01B								
0.36 - 0.64	7.7H	0.013B	7.9K	7.2	0.13	0.5	6.2D		21.9E	

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 - 0.15			4C	0.021F	0.062B				22C	46	18	15
0.18 - 0.28									22C	41	19	17
0.28 - 0.36									15C	31	16	38
0.36 - 0.64									5C	26	12	58

[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
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
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
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