

Project Name: LBV
Project Code: LBV **Site ID:** B10 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	12/10/48	Elevation:	21 metres
Map Ref.:	Sheet No. : 8358 1:100000	Rainfall:	800
Northing/Long.:	147.229166666667	Runoff:	Slow
Easting/Lat.:	-19.858888888889	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Cza	Substrate Material:	Soil pit, 0.8 m deep, Metamorphic rock (unidentified)

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Trampled, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Mottled-Hypernatric Grey Sodosol		Principal Profile Form:	Dy3.33
ASC Confidence:		Great Soil Group:	Solonetz
All necessary analytical data are available.			

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - , , . *Species includes - Chloris species, Unknown species
Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eremophila mitchellii, Eucalyptus papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Grey (10YR5/1-Moist); ; Loam; Weak grade of structure, <2 mm, Platy; Dry; Very weak consistence; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 6 (pH meter); Sharp change to -
B21	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); , 10YR32; Light medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 7.4 (pH meter); Gradual change to -
B22	0.2 - 0.36 m	Pale brown (10YR6/3-Moist); ; Light medium clay; Weak grade of structure, 50-100 mm, Angular blocky; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.7 (pH meter); Gradual change to -
B23	0.36 - 0.76 m	Light yellowish brown (10YR6/4-Moist); ; Medium clay; Weak grade of structure, 50-100 mm, Angular blocky; Moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.4 (pH meter); Clear change to -
C	0.76 - 0.86 m ;	

Morphological Notes

C Weathered shistose and micaceous metasediment:

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 - 0.08	6H	0.02B	2.3K	2.5	0.47	0.49	6.2D		12E	
0.1 - 0.2	7.4H	0.06B	5.1K	5.5	0.28	2.3	2.4D		15.6E	
0.2 - 0.36	8.7H	0.18B								
0.36 - 0.76	9.4H	0.45B	5.6K	6	0.23	9.5			21.3E	

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 - 0.08				0.026F	0.1B				15C	52	17	14
0.1 - 0.2									11C	42	18	30
0.2 - 0.36	0.04C											
0.36 - 0.76	0.79C								5C	43	12	42

[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 ₃) - 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
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