

Project Name: LBV
Project Code: LBV **Site ID:** B25 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	I. Nankivell	Locality:	
Date Desc.:	15/08/49	Elevation:	15 metres
Map Ref.:	Sheet No. : 8358 1:100000	Rainfall:	750
Northing/Long.:	147.103055555556	Runoff:	Very slow
Easting/Lat.:	-19.772222222222	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	CZA	Substrate Material:	Auger boring, 1.4 m deep, Slightly porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous-Endohypersodic Epipedal Brown Vertosol		Principal Profile Form:	Ug5.24
ASC Confidence:		Great Soil Group:	Grey clay
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 - None recorded
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Grey (10YR5/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Very coarse, (20 - 50) mm crack; Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 - 6 mm), Nodules; Field pH 6.9 (pH meter); Clear change to -
B2	0.09 - 0.51 m	Brown (10YR5/3-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Very coarse, (20 - 50) mm crack; Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 - 6 mm), Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.4 (pH meter); Diffuse change to -
B2	0.53 - 0.76 m	Brown (10YR5/3-Moist); , 10YR64; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Very coarse, (20 - 50) mm crack; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 - 6 mm), Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.8 (pH meter); Diffuse change to -
B2	0.76 - 0.94 m	Pale brown (10YR6/3-Moist); , 10YR53; Heavy clay; Moderate grade of structure, Lenticular; Very coarse, (20 - 50) mm crack; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 - 6 mm), Nodules; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.8 (pH meter); Diffuse change to -
B3	0.94 - 1.22 m	Pale brown (10YR6/3-Moist); , 10YR52; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 - 6 mm), Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.6 (pH meter); Diffuse change to -
C	1.37 - 1.83 m	Light yellowish brown (10YR6/4-Moist); ; Light clay; Massive grade of structure; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.3 (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 - 0.08	6.9H	0.02B	16K	12	0.69	0.54	5.5D		34.7E	
0.09 - 0.51	8.4H	0.03B	16K	13.6	0.32	2.3	1.7D		33.9E	
0.53 - 0.76	8.9H	0.17B	14.3K	21	0.24	4.2			39.7E	
0.76 - 0.94	8.9H	0.26B								
0.94 - 1.22	8.6H	0.34B	8.6K	12.5	0.28	7.7			29.1E	
1.37 - 1.83	8.3H	0.23B								

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 - 0.08		1.1E	2C	0.011F	0.08B				4C	16	23	56
0.09 - 0.51	0.02C	0.47E			0.04B			2	2C	15	23	57
0.53 - 0.76	0.51C							4	2C	15	27	56
0.76 - 0.94	0.84C							8	2C	14	24	55
0.94 - 1.22	0.36C							6	4C	15	28	55
1.37 - 1.83	0.04C								2C	31	27	41

[illegible]

Project Name: LBV
Project Code: LBV **Site ID:** B25 **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 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
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