

Project Name: LBV
Project Code: LBV **Site ID:** B34 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	22/08/49	Elevation:	60 metres
Map Ref.:	Sheet No. : 8358 1:100000	Rainfall:	750
Northing/Long.:	147.122222222222	Runoff:	Moderately rapid
Easting/Lat.:	-19.9588888888889	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	CZA	Substrate Material:	Soil pit, 0.99 m deep, Non-porous, dense, Sandstone

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	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): Loose

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Mottled-Hypernatric Grey Sodosol		Principal Profile Form:	Dy5.43
ASC Confidence:		Great Soil Group:	Solodized solonetz
All necessary analytical data are available.			

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

Vegetation:

Mid Strata - Shrub, , . *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 - 0.1 m	Grey (10YR5/1-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; Field pH 5.7 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
A21	0.1 - 0.25 m	Light grey (7.5YR7/1-Moist); ; Sand; Massive grade of structure; Dry; Very weak consistence; Field pH 5.7 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
A22	0.28 - 0.38 m	Light grey (7.5YR7/1-Moist); ; Sand; Massive grade of structure; Dry; Very weak consistence; Field pH 6.8 (pH meter); Few, very fine (0-1mm) roots; Abrupt change to -
B21	0.38 - 0.76 m	Greyish brown (2.5Y5/2-Moist); , 10YR53; Sandy medium clay; Strong grade of structure, 100-200 mm, Columnar; Dry; Strong consistence; Field pH 7.7 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B22	0.79 - 0.99 m	Light brownish grey (2.5Y6/2-Moist); , 10YR61; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Field pH 9.8 (pH meter); Abrupt change to -
D	0.99 - 1.09 m	; Massive grade of structure;

Morphological Notes

D Hard siliceous rock

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 - 0.1	5.7H	0.01B								
0.1 - 0.25	5.7H	0.01B								
0.28 - 0.38	6.9H	0.01B								
0.38 - 0.76	7.8H	0.07B	1.9K	3.9	0.11	4	1.7D		11.6E	
0.79 - 0.99	9.8H	0.18B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1			1C	0.002F	0.02B				56C	34	6	6
0.1 - 0.25												
0.28 - 0.38					0.01B							
0.38 - 0.76					0.02B			2	41C	28	7	26
0.79 - 0.99	0.66C							16	26C	36	9	29

[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
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