Project Name: LBV
Project Code: LBV **Site ID:** B29 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: I. Nankivell
Date Desc.: 17/08/49
Map Ref.: Sheet No. : 8358 1:100000
Northing/Long.: 147.105555555556
Easting/Lat.: -19.7861111111111
Locality:
Elevation: 18 metres
Rainfall: 750
Runoff: Moderately rapid
Drainage: Well drained

Geology

ExposureType: Soil pit
Geol. Ref.: CZA
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2 m deep,Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Eutrophic Grey Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc2.22
Great Soil Group: No suitable group

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

Vegetation:

Low Strata - Tussock grass, , . *Species includes - Heteropogon triticeus, Heteropogon contortus
Mid Strata - Shrub, , . *Species includes - Planchonia careya
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus polycarpa, Eucalyptus tessellaris

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Grey (10YR6/1-Moist); ; Loamy sand; Single grain grade of structure; Dry; Loose consistence; Field pH 6.4 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
A21	0.11 - 0.28 m	White (10YR8/2-Moist); ; Loamy sand; Single grain grade of structure; Dry; Loose consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.5 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
A22	0.3 - 0.51 m	White (10YR8/2-Moist); ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.5 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B1	0.51 - 0.86 m	Light brownish grey (10YR6/2-Moist); , 10YR84; , 10YR66; Clay loam, sandy; Massive grade of structure; Moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.7 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B2	0.86 - 1.14 m	Light brownish grey (10YR6/2-Moist); , 10YR84; , 10YR66; Clay loam, sandy; Massive grade of structure; Moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.7 (pH meter); Diffuse change to -
B2	1.14 - 1.68 m	Light brownish grey (10YR6/2-Moist); , 10YR84; , 10YR66; Clay loam, sandy; Massive grade of structure; Moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.3 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6.5H	0.01B	2.4K	1	0.22	0.07	1.8D		5.5E	
0.11 - 0.28	6.6H	0.01B								
0.3 - 0.51	6.7H	0.01B								
0.51 - 0.86	6.7H	0.01B								
0.86 - 1.14	6.7H	0.01B								
1.14 - 1.68	6.4H	0.01B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.75E	14C	0.013F	0.05B			3	48C	31	13	6
0.11 - 0.28		0.18E			0.01B							
0.3 - 0.51								10	47C	34	11	7
0.51 - 0.86												
0.86 - 1.14								26	51C	27	10	12
1.14 - 1.68												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.1									
0.11 - 0.28									
0.3 - 0.51									
0.51 - 0.86									
0.86 - 1.14									
1.14 - 1.68									

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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 recordede
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