Project Name: LBV
Project Code: LBV **Site ID:** B100 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.B. Stirk
Date Desc.: 19/11/50
Map Ref.: Sheet No. : 8358 1:100000
Northing/Long.: 147.45
Easting/Lat.: -19.7833333333333
Locality:
Elevation: 19 metres
Rainfall: 850
Runoff: Slow
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: CZS
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.2 m deep,Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Drainage depression
Slope: 0 %
Pattern Type: Rises
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Hypocalcic Red Chromosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Dr2.13
Great Soil Group: Red-brown earth

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

A11	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Massive grade of structure; Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Field pH 6.4 (pH meter); Clear change to -
A12	0.08 - 0.18 m	Dark greyish brown (10YR4/2-Moist); ; Sandy clay loam; Massive grade of structure; Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Field pH 6.1 (pH meter); Clear change to -
B21	0.18 - 0.41 m	Dark reddish brown (2.5YR3/4-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.3 (pH meter); Diffuse change to -
B22	0.41 - 0.79 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 7.8 (pH meter); Diffuse change to -
B3	0.79 - 1.19 m	Reddish brown (5YR4/4-Moist); ; Sandy medium clay (Light); Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (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	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.08	6.5H	0.015B								
0.08 - 0.18	6.1H	0.011B								
0.18 - 0.41	6.3H	0.012B								
0.41 - 0.79	7.8H	0.019B								
0.79 - 1.19	8.8H	0.051B								

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 - 0.08			6C									
0.08 - 0.18												
0.18 - 0.41												
0.41 - 0.79												
0.79 - 1.19												

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 - 0.08									
0.08 - 0.18									
0.18 - 0.41									
0.41 - 0.79									
0.79 - 1.19									

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Laboratory Analyses Completed for this profile

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
9_NR	Available P (mg/kg) - Not recorded