Project Name: LBV
Project Code: LBV **Site ID:** B82 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 14/11/50
Map Ref.: Sheet No. : 8358 1:100000
Northing/Long.: 147.3
Easting/Lat.: -19.9666666666667
Locality:
Elevation: 50 metres
Rainfall: 850
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: PZG
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.3 m deep,Non-porous, dense, Igneous rock (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: Closed Depression
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:
Bleached-Mottled Hypocalcic Yellow Chromosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Dy3.43
Great Soil Group: Solodic soil

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

Vegetation: Low Strata - Tussock grass, , Closed or dense. *Species includes - None recorded
Tall Strata - Shrub, , Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.08 m	Grey (10YR5/1-Moist); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.6 (pH meter); Clear change to -
A12	0.08 - 0.23 m	Grey (10YR6/1-Moist); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.2 (pH meter); Gradual change to -
A2	0.23 - 0.33 m	Light grey (10YR7/1-Moist); ; Clayey sand; Massive grade of structure; Dry; Weak consistence; 2-10%, coarse gravelly, 20-60mm, angular, Substrate material, coarse fragments; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.6 (pH meter); Clear, Wavy change to -
B21	0.33 - 0.64 m	Brownish yellow (10YR6/6-Moist); , 5YR44; Heavy clay; Moderate grade of structure, Angular blocky; Moderately moist; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.1 (pH meter); Diffuse change to -
B22	0.64 - 0.94 m	Brownish yellow (10YR6/5-Moist); , 2.5Y42; Heavy clay; Moderate grade of structure, Angular blocky; Moderately moist; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter); Diffuse change to -
B3	0.94 - 1.22 m	Light yellowish brown (2.5Y6/4-Moist); , 2.5Y42; Light medium clay; Weak grade of structure, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); Diffuse change to -
C	1.3 - 1.68 m	Light olive grey (5Y6/2-Moist); , 2.5Y51; , 10YR63; Clay loam; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.2 (pH meter);

Morphological Notes

Observation Notes

Site Notes

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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 - 0.08	6.6H	0.007B								
0.08 - 0.23	6.2H	0.006B								
0.23 - 0.33	6.6H	0.006B								
0.33 - 0.64	7.1H	0.02B								
0.64 - 0.94	8.6H	0.082B								
0.94 - 1.22	9H	0.178B								
1.3 - 1.68	9.3H	0.128B								

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			7C									
0.08 - 0.23												
0.23 - 0.33												
0.33 - 0.64												
0.64 - 0.94												
0.94 - 1.22												
1.3 - 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 - 0.08										
0.08 - 0.23										
0.23 - 0.33										
0.33 - 0.64										
0.64 - 0.94										
0.94 - 1.22										
1.3 - 1.68										

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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