Project Name: LBV
Project Code: LBV **Site ID:** B96 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: C.H. Thompson
Date Desc.: 16/11/50
Map Ref.: Sheet No. : 8358 1:100000
Northing/Long.: 147.316666666667
Easting/Lat.: -19.9833333333333
Locality:
Elevation: 35 metres
Rainfall: 850
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: CZS
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.5 m deep,Porous, Unconsolidated material (unidentified)

Land Form

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

Surface Soil Condition (dry): Cracking, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Calcic Subnatric Grey Sodosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Dy2.43
Great Soil Group: Solodic soil

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

Vegetation: Low Strata - Tussock grass, , Mid-dense. *Species includes - Heteropogon contortus, Chloris species
Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Light grey (10YR7/2-Moist); ; Clay loam; Massive grade of structure; Dry; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.4 (pH meter); Sharp, Irregular change to -
B21	0.08 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.4 (pH meter); Gradual change to -
B22	0.2 - 0.36 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8.1 (pH meter); Gradual change to -
B23	0.36 - 0.53 m	Dark greyish brown (10YR4/2-Moist); , 10YR32; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Gradual change to -
B3	0.53 - 1.14 m	Yellowish brown (10YR5/6-Moist); , 10YR52; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.5 (pH meter);

Morphological Notes

Observation Notes

0-8CM A1 + A2 HORIZON

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	6.4H	0.03B								
0.08 - 0.2	7.4H	0.07B								
0.2 - 0.36	8.1H	0.16B								
0.36 - 0.53	8.8H	0.42B								
0.53 - 1.14	8.5H	0.46B								

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		1.6E	30C	0.025F	0.1B				25C	33	19	21
0.08 - 0.2								7	17C	26	18	37
0.2 - 0.36								8	18C	23	19	46
0.36 - 0.53	2.3C											
0.53 - 1.14	0.13C							9	12C	21	13	51

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 - 0.2									
0.2 - 0.36									
0.36 - 0.53									
0.53 - 1.14									

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Laboratory Analyses Completed for this profile

19B_NR	Calcium Carbonate (CaCO3) - 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