Project Name: LBV
Project Code: LBV **Site ID:** B83 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 15/11/50
Map Ref.: Sheet No. : 8357 1:100000
Northing/Long.: 147.383333333333
Easting/Lat.: -20.0166666666667
Locality:
Elevation: 50 metres
Rainfall: 850
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: CPG
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.76 m deep,Non-porous, dense, Igneous rock (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 0 %
Pattern Type: Rises
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Trampled

Erosion:

Soil Classification

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

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

Vegetation: Low Strata - Tussock grass, , Sparse. *Species includes - Heteropogon contortus
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	Greyish brown (10YR5/2-Moist); Light brownish grey (10YR6/2-Dry); ; Loamy coarse sand; Massive grade of structure; Dry; Loose consistence; 10-20%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Field pH 6.3 (pH meter); Gradual change to -
A2	0.1 - 0.17 m	Very pale brown (10YR8/3-Dry); ; Coarse sand; Massive grade of structure; Dry; Loose consistence; 10-20%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Field pH 6.3 (pH meter); Abrupt, Wavy change to -
B21	0.17 - 0.33 m	Light yellowish brown (10YR6/4-Moist); , 10YR68; Heavy clay; Moderate grade of structure, 100-200 mm, Columnar; Dry; Very strong consistence; 0-2%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Field pH 6.6 (pH meter); Diffuse change to -
B22	0.33 - 0.61 m	Light yellowish brown (10YR6/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.3 (pH meter); Diffuse change to -
B3	0.61 - 0.76 m	Light grey (2.5Y7/2-Moist); ; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.6 (pH meter); Diffuse change to -
C	0.76 - 1.14 m	Pink (7.5YR7/4-Moist); , 2.5Y62; , 10YR81; Clay loam; Massive grade of structure; Moist; Very weak consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.8 (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 - 0.1	6.3H	0.01B								
0.1 - 0.17	6.3H	0.01B								
0.17 - 0.33	6.6H	0.04B	4.7K	7	0.12	2.7	4.1D		18.6E	
0.33 - 0.61	9.3H	0.18B	4.5K	7.5	0.08	3.8			15.9E	
0.61 - 0.76	9.6H	0.24B								
0.76 - 1.14	9.8H	0.21B								

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		0.54E	4C	0.007F	0.04B			10	57C	30	7	6
0.1 - 0.17								11	58C	29	7	5
0.17 - 0.33								7	33C	25	5	36
0.33 - 0.61	0.55C							6	34C	28	9	28
0.61 - 0.76	1.2C							10	29C	26	13	22
0.76 - 1.14	0.88C							12	40C	27	12	10

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									
0.1 - 0.17									
0.17 - 0.33									
0.33 - 0.61									
0.61 - 0.76									
0.76 - 1.14									

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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 (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