Project Name: LBV
Project Code: LBV **Site ID:** B67 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 27/10/50
Map Ref.: Sheet No. : 8358 1:100000
Northing/Long.: 147.366666666667
Easting/Lat.: -19.8333333333333
Locality:
Elevation: 95 metres
Rainfall: 850
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: SDR
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.94 m deep,Non-porous, dense, Igneous rock (unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: No Data
Elem. Type: Hillslope
Slope: 0 %
Pattern Type: Rises
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Self-mulching, Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Endocalcareous Self-Mulching Black Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.14
Great Soil Group: Black earth

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

Vegetation: Low Strata - Tussock grass, , Closed or dense. *Species includes - Ophiurous exaltatus

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus papuana

Surface Coarse Fragments: 0-2%, coarse gravelly, 20-60mm, , Substrate material

Profile Morphology

A1	0 - 0.07 m	Black (10YR2/1-Dry); ; Heavy clay; Moderate grade of structure, 5-10 mm, Granular; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.1 (pH meter); Gradual change to -
B2	0.07 - 0.66 m	Black (10YR2/1-Dry); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 10-20 mm, Lenticular; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.6 (pH meter); Diffuse change to -
B2	0.66 - 0.86 m	Very dark grey (10YR3/1-Dry); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 10-20 mm, Lenticular; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Diffuse change to -
C	0.94 - 1.2 m	Grey (5Y6/1-Dry); , 2.5Y80; Clay loam; Massive grade of structure; Moist; Very weak consistence; Field pH 9 (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 - 0.07	7.1H	0.01B	16.5K	27.6	0.11	0.34	5.8D		50.4E	
0.07 - 0.66	7.6H	0.02B	20.2K	34	0.13	1.5	4.1D		59.9E	
0.66 - 0.86	8.7H	0.09B								
0.94 - 1.2	9H	0.15B								

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 - 0.07		1.3E	4C	0.011F	0.06B				10C	21	15	51
0.07 - 0.66									9C	21	10	59
0.66 - 0.86	0.4C							2	10C	21	16	54
0.94 - 1.2								19	15C	33	17	30

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 - 0.07									
0.07 - 0.66									
0.66 - 0.86									
0.94 - 1.2									

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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