Project Name: LBV
Project Code: LBV **Site ID:** B57 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 11/10/50
Map Ref.: Sheet No. : 8358 1:100000
Northing/Long.: 147.4
Easting/Lat.: -19.9

Locality:
Elevation: 59 metres
Rainfall: 750
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: SDR

Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2 m deep,Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %

Pattern Type: Alluvial plain
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Calcic Hypernatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.

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 - None recorded
Mid Strata - Shrub, , Very sparse. *Species includes - Grevillea striata
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.06 m	Very dark grey (10YR3/1-Moist); ; Silty clay loam; Massive grade of structure; Weak grade of structure, Platy; Dry; Weak consistence; Field pH 6.5 (pH meter); Clear change to -
A2	0.06 - 0.15 m	Light grey (10YR7/2-Moist); ; Clay loam; Massive grade of structure; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.5 (pH meter); Sharp change to -
B2	0.15 - 0.28 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 100-200 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.8 (pH meter); Gradual change to -
B2	0.28 - 0.53 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.7 (pH meter); Gradual change to -
B2	0.53 - 0.69 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Gradual change to -
B3	0.76 - 1.04 m	Reddish yellow (7.5YR6/8-Moist); , 10YR73; Light clay; Massive grade of structure; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (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 - 0.06	6.5H	0.02B	12.5K	9.4	0.54	0.46	1.7D		24.6E	
0.06 - 0.15	6.5H	0.02B								
0.15 - 0.28	6.8H	0.05B	12.8K	15	0.15	2.2	6D		36.2E	
0.28 - 0.53	7.7H	0.15B								
0.53 - 0.59	8.3H	0.27B	14.2K	21.6	0.12	5.7	0.96D		42.6E	
0.76 - 1.04	8.6H	0.12B								

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 - 0.06		2.5E	11C	0.02F	0.23B				16C	29	26	27
0.06 - 0.15									23C	28	23	23
0.15 - 0.28									18C	28	11	42
0.28 - 0.53												
0.53 - 0.59	0.12C							2	19C	20	11	48
0.76 - 1.04	0.4C							4	29C	14	12	45

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 - 0.06										
0.06 - 0.15										
0.15 - 0.28										
0.28 - 0.53										
0.53 - 0.59										
0.76 - 1.04										

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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