Project Name: LBV

Project Code: LBV Site ID: B69 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble Locality:

Date Desc.: 09/04/50 Elevation: 20 metres Sheet No.: 8358 Map Ref.: 1:100000 Rainfall: 850 Northing/Long.: Runoff: 147.25 No runoff -19.83333333333333 Poorly drained Easting/Lat.: Drainage:

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: CZS Substrate Material: Auger boring, 2 m deep, Slightly porous,

Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Alluvial plain

1-3%

Morph. Type:No DataRelief:No DataElem. Type:PlainSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEndocalcareous Epipedal Grey VertosolPrincipal Profile Form:Ug5.24ASC Confidence:Great Soil Group:Grey clay

Analytical data are incomplete but reasonable confidence.

<u>Site Disturbance:</u> No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , Closed or dense. *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Grey (10YR6/1-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Granular; Dry; Weak consistence; Field pH 5.6 (pH meter); Clear change to -
B2	0.05 - 0.36 m	Dark grey (10YR4/1-Moist); , 10YR76; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.1 (pH meter); Gradual change to -
B2	0.36 - 0.94 m	Dark grey (10YR4/1-Moist); , 10YR76; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.2 (pH meter); Diffuse change to -
B2	0.99 - 1.22 m	Dark greyish brown (2.5Y4/2-Moist); , 10YR64; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 7.8 (pH meter); Diffuse change to -
B2	1.22 - 1.47 m	Dark greyish brown (2.5Y4/2-Moist); , 10YR64; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.3 (pH meter); Diffuse change to -
B2	1.52 - 2.03 m	Light yellowish brown (2.5Y6/4-Moist); ; Heavy clay; Weak grade of structure, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very

few (0 - 2%), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 7.9 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC		ECEC	E	SP
m		dS/m	ou .	"g		Cmol (+					o,	%
0 - 0.05	5.6H	0.02B	9.1K	7.6	0.78	0.76	12.4D			30.6E		
0.05 - 0.36 0.36 - 0.94	7.1H 7.2H	0.01B 0.08B	14.1K	12.9	0.44	1.8	5.4D			34.6E		
0.99 - 1.22 1.22 - 1.47	7.8H 8.3H	0.26B 0.32B	17.4K	20.2	0.3	5.3	1.1D			44.3E		
1.52 - 2.03	7.9H	0.27B	16.7K	13.5	0.41	3.7	0.8D			35.1E		
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	P: GV	article CS	Size /	Analysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3	•	00	%	Oiit .	Olay
0 - 0.05		1.8E	6C	0.018F	0.1	4B			1C	29	22	46
0.05 - 0.36 0.36 - 0.94									1C	26	16	56
0.99 - 1.22 1.22 - 1.47	0.030								1C	21	20	56
1.52 - 2.03	0.040								2C	14	29	57
Depth	COLE Gravimetric/Volumetric Water Contents K sat K unsat											
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar g - m3/m	1 Bar 3	5 Bar 15	Bar	mm	/h	mm/h	

^{0 - 0.05} 0.05 - 0.36 0.36 - 0.94 0.99 - 1.22 1.22 - 1.47 1.52 - 2.03

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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 - meg per 100g of soil - Not recorded

15_NR_K Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded 15_NR_MG Exch. basic cations (Na++) - med per 100g of soil - Not recorded Calcium Carbonate (CaCO3) - Not recorded 15_NR_NA

19B_NR

Loss on Ignition (%) 2_LOI 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

Organic carbon (%) - Not recorded 6Z 7_NR Total nitrogen (%) - Not recorded Available P (mg/kg) - Not recorded Total element - P(%) - Not recorded 9_NR 9A_NR

P10_NR_C Clay (%) - Not recorded

P10_NR_CS Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_FS P10_NR_Z Silt (%) - Not recorded