LBV **Project Name:**

Project Code: LBV Site ID: **B38** Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: Date Desc.: C.H. Thompson Locality:

Elevation: 08/11/49 60 metres Map Ref.: Sheet No.: 8357 1:100000 Rainfall: 750

Northing/Long.: 147.266666666667 Runoff: Moderately rapid Easting/Lat.: -20.1166666666667 Drainage: Moderately well drained

Geology

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

Geol. Ref.: **Substrate Material:** Auger boring, 2 m deep, Porous, CZA

Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data Pattern Type: Alluvial plain No Data Morph. Type: No Data Relief: Elem. Type: Levee Slope Category: No Data 0 % Aspect: No Data Slope:

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Haplic Eutrophic Grey Chromosol **Principal Profile Form:** Dy2.62

ASC Confidence: Great Soil Group: No suitable group

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, , Mid-dense. *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

A11	0 - 0.05 m	Grey (10YR5/1-Moist); ; Loamy fine sand; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; Field pH 6.6 (pH meter); Clear change to -
A12	0.05 - 0.13 m	Greyish brown (10YR5/2-Moist); ; Loamy fine sand; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; Field pH 6.8 (pH meter); Gradual change to -
A2	0.13 - 0.33 m	Brown (10YR5/3-Moist); ; Fine sand; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Field pH 6.8 (pH meter); Gradual change to -
А3	0.33 - 0.51 m	Brown (10YR5/3-Moist); Clayey fine sand; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Field pH 7.2 (pH meter); Clear change to -
B21	0.53 - 0.71 m	Greyish brown (2.5Y5/2-Moist); , 10YR64; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; Field pH 7.3 (pH meter); Gradual change to -
B22	0.71 - 1.02 m	Greyish brown (2.5Y5/3-Moist); , 10YR64; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Field pH 7.5 (pH meter); Gradual change to -
В3	1.32 - 1.68 m	Olive yellow (2.5Y6/6-Moist); ; Fine sandy clay loam; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, , Soft segregations; Field pH 8.1 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

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Laboratory Test Results:

Eudoratory Test Nesauts.													
Depth	pН	1:5 EC		nangeable ⁄Ig	Cations K	Na E	xchangeable Acidity	CEC	E	CEC	E	SP	
m		dS/m				Cmol (+)	/kg				%	•	
0 - 0.05	6.7H	0.02B	5.9K	1.4	0.39	0.01	3.2D		1	10.9E			
0.05 - 0.13	6.8H	0.02B											
0.13 - 0.33	6.9H	0.01B											
0.33 - 0.51	7.2H	0.01B	7.416	- 4	0.00	0.47	0.00						
0.53 - 0.71	7.3H	0.01B	7.1K	5.1	0.32	0.17	2.6D			15.3E			
0.71 - 1.02 1.32 - 1.68	7.6H 8.2H	0.01B 0.01B	7.1K	5.2	0.28	0.2	2.5D		1	15.3E			
1.32 - 1.00	0.∠⊓	0.016											
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pai	ticle S	Size Aı	nalysis		
		С	Р	P	N	K	Density	G۷	cs	FS	Silt C	lay	
m	%	%	mg/kg	%	%	%	Mg/m3			%			
0 - 0.05		1.5E	66C	0.026F	0.0	9B			3C	72	12	10	
0.05 - 0.13													
0.13 - 0.33 0.33 - 0.51									4C	74	11	11	
0.53 - 0.51									3C	56	10	31	
0.71 - 1.02									30	50	10	51	
1.32 - 1.68	0.005	С							2C	66	8	22	
		-							_	, ,		_	
Danth	COLE		Gravimetric/Volumetric Water Contents								K unsat		
Depth	COLE	Sat.		0.1 Bar	0.5 Bar	1 Bar	tents 5 Bar 15 Ba	Rar	K sat	sat Kuns			
m		Jai.	5.05 Dai		g - m3/m		3 Dai 13	-ui	mm/h	1	mm/h		
				5.									

0 - 0.05 0.05 - 0.13 0.13 - 0.33 0.33 - 0.51

0.53 - 0.51 0.53 - 0.71 0.71 - 1.02 1.32 - 1.68

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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