LBV **Project Name:**

Observation ID: 1 **Project Code:** LBV Site ID: R۶

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Desc. By: G.D. Hubble Locality:

Date Desc.: Elevation: 32 metres 12/10/48 Sheet No.: 8358 1:100000 Map Ref.: Rainfall: 800 147.216666666667 Runoff: Northing/Long.: Very slow -19.8791666666667 Poorly drained Easting/Lat.: Drainage:

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit

Substrate Material: Geol. Ref.: Auger boring, Slightly porous, Cza

Unconsolidated material (unidentified)

Land Form

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

1-3%

Morph. Type: No Data Relief: 3 metres Plain Slope Category: Elem. Type: No Data Slope: Aspect: No Data 0 %

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Dd1.23 Calcic Hypernatric Black Sodosol **Principal Profile Form:** ASC Confidence: **Great Soil Group:** Solonetz

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals **Vegetation:** Low Strata - Tussock grass, , . *Species includes - Chloris species

Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eremophila mitchellii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.03 m Light yellowish brown (2.5Y6/4-Moist); Loam; Weak grade of structure, 2-5 mm, Platy; Dry; Weak consistence; Field pH 6.4 (pH meter); Abrupt change to -B21 0.04 - 0.36 m Very dark greyish brown (2.5Y3/2-Moist); ; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 8.1 (pH meter); Many, fine (1-2mm) roots; Diffuse change to -B22 0.36 - 0.66 m Dark greyish brown (2.5Y4/2-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.3 (pH meter); Diffuse change to -B23 0.69 - 0.91 m Greyish brown (2.5Y5/3-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; Common (10 - 20 %), Calcareous, , Nodules; Field pH 9.2 (pH meter); Diffuse change to -B31 Pale brown (10YR6/3-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, 0.91 - 1.37 m Angular blocky; Moist; Weak consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9.2 (pH meter); Diffuse change to -**B32** 1.37 - 1.75 m Light yellowish brown (10YR6/4-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; Common (10 - 20 %), Calcareous, , Nodules; Field pH 9.3 (pH meter); Diffuse change to -BC Very pale brown (10YR7/3-Moist); ; Light clay; Massive grade of structure; Moist; Very few (0 - 2

%), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, , Nodules; Field pH

Morphological Notes

1.83 - 2.44 m

Observation Notes

MICRO-RELIEF SLIGHT BANKS AND PUDDLED PANS 25MM BELOW LEVEL:

9.2 (pH meter);

Site Notes

BURDEKIN VALLE

Project Name: LBV
Project Code: LBV Site ID: B8
Agency Name: CSIRO Division of Soils (QLD) **B8** Observation ID: 1

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Laboratory Test Results:

Laboratory rest results.												
Depth	рН	1:5 EC		hangeable			Exchangeable	CEC	E	ECEC	ES	SP
m		dS/m	Ca I	Mg	K	Na Cmol (-	Acidity +)/ka				%	
		uo/iii)	. <i>,,</i> g				,,	
0 - 0.03	6.4H	0.06B	4.9K	3.9	0.62	0.97	4.1D			14.5E		
0.04 - 0.36	8.1H	0.39B	12.8K	8	0.26	8.3	1D		3	30.4E		
0.36 - 0.66	9.3H	0.42B	8.6K	5.2	0.17	8.1			2	22.1E		
0.69 - 0.91	9.2H	0.36B										
0.91 - 1.37	9.2H	0.46B	7.5K	7.9	0.3	17.1			3	32.8E		
1.37 - 1.75	9.3H	0.49B										
1.83 - 2.44	9.2H	0.35B										
Depth	CaCO3	Organia	Avail.	Total	Total	Tota	ıl Bulk	D	article \$	Size A	nalysis	
Берш	Cacos	Organic C	Avaii. P	P	N	K	Density	GV	CS	FS A	Silt C	lav
m	%	%	mg/kg	%	%	%	Mg/m3	OV	00	%	ont o	iay
			3 3				•					
0 - 0.03		0.94E	82C	0.037F	0.0	8B			3C	53	22	19
0.04 - 0.36				0.016F					2C	31	26	39
0.36 - 0.66									4C	29	31	35
0.69 - 0.91									4C	27	38	28
0.91 - 1.37									3C	21	26	47
1.37 - 1.75									2C	24	27	46
1.83 - 2.44												
Depth	th COLE Gravimetric/Volumetric W						ater Contents			K sat K unsat		
Dop		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar		Bar	30	• •	· anout	
m					g - m3/m				mm/ł	h	mm/h	
0 000												

0 - 0.03 0.04 - 0.36 0.36 - 0.66 0.69 - 0.91 0.91 - 1.37 1.37 - 1.75 1.83 - 2.44

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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_NA 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

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 - CI(%) - 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_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