Project Name: LBV
Project Code: LBV **Site ID:** B41 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 17/08/50
Map Ref.: Sheet No. : 8357 1:100000
Northing/Long.: 147.325
Easting/Lat.: -20.34
Locality:
Elevation: 70 metres
Rainfall: 750
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: CZA
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2 m deep,Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: No Data
Elem. Type: Levee
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:
Eutrophic Subnatric Red Sodosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Dy3.42
Great Soil Group: Solodic soil

Site Disturbance:

Vegetation:

Low Strata - Tussock grass, , Mid-dense. *Species includes - Heteropogon triticeus, Heteropogon contortus

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Brown (7.5YR4/2-Moist); ; Loamy fine sand; Massive grade of structure; Weak grade of structure, Granular; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; Field pH 6.7 (pH meter); FewGradual change to -
A2	0.1 - 0.36 m	Strong brown (7.5YR5/5-Moist); ; Loamy fine sand; Massive grade of structure, Granular; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; Field pH 7 (pH meter); FewDiffuse change to -
A2	0.36 - 0.71 m	Very pale brown (10YR7/4-Moist); ; Clay loam, fine sandy; Massive grade of structure; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.9 (pH meter); FewClear change to -
B21	0.71 - 0.86 m	Reddish yellow (5YR6/6-Moist); ; Light medium clay; , Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Field pH 7.3 (pH meter); Diffuse change to -
B22	0.86 - 1.17 m	Reddish yellow (5YR6/7-Moist); ; Fine sandy medium clay; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), , Medium (2 -6 mm), Soft segregations; Field pH 7.8 (pH meter); Diffuse change to -
B3	1.17 - 1.83 m	Reddish yellow (5YR6/7-Moist); ; Fine sandy clay loam; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), , Medium (2 -6 mm), Soft segregations; Field pH 8.3 (pH meter);

Morphological Notes

Observation Notes

SAND DOWN FINE CRACKS 71-86CM

Site Notes

BURDEKIN VALLE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6.7H	0.01B								
0.1 - 0.36	7H	0.01B								
0.36 - 0.71	6.9H	0.02B								
0.71 - 0.86	7.3H	0.02B								
0.86 - 1.17	7.8H	0.02B								
1.17 - 1.83	8.3H	0.04B								

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 - 0.1			36C	0.017F	0.04B				10C	72	11	6
0.1 - 0.36												
0.36 - 0.71												
0.71 - 0.86									8C	49	9	34
0.86 - 1.17												
1.17 - 1.83	0.01C								6C	57	12	26

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 - 0.1										
0.1 - 0.36										
0.36 - 0.71										
0.71 - 0.86										
0.86 - 1.17										
1.17 - 1.83										

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Laboratory Analyses Completed for this profile

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
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