Project Name: LBV
Project Code: LBV **Site ID:** B88 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 21/11/50
Map Ref.: Sheet No. : 8357 1:100000
Northing/Long.: 147.216666666667
Easting/Lat.: -20.1666666666667
Locality:
Elevation: 61 metres
Rainfall: 850
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: Fan
Slope: 0 %
Pattern Type: Plain
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Trampled

Erosion:

Soil Classification

Australian Soil Classification:
Calcic Mottled-Mesonatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.43
Great Soil Group: Solodized solonetz

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

Vegetation:

Low Strata - Tussock grass, , Mid-dense. *Species includes - Heteropogon contortus, Heteropogon triticeus
Mid Strata - Shrub, , Very sparse. *Species includes - Acacia farnesiana, Planchonia careya
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Light grey (10YR7/2-Moist); ; Loamy sand; Massive grade of structure; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, coarse fragments; Field pH 6.2 (pH meter); Clear change to -
A2	0.08 - 0.3 m	Pinkish yellow (7.5YR8/2-Moist); ; Sand; Massive grade of structure; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, coarse fragments; Field pH 6.6 (pH meter); Abrupt, Smooth change to -
B21	0.3 - 0.46 m	Greyish brown (2.5Y5/2-Moist); , 10YR64; Medium heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, Angular blocky; Dry; Strong consistence; 10-20%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.8 (pH meter); Gradual change to -
B3	0.46 - 0.69 m	Light grey (2.5Y7/2-Moist); , 10YR76; , 5YR44; Light medium clay; Massive grade of structure; Moist; Strong consistence; 10-20%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Diffuse change to -
B3	0.69 - 0.91 m	Light grey (2.5Y7/2-Moist); , 5YR47; Clay loam; Massive grade of structure; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Nodules; Field pH 9.5 (pH meter); Diffuse change to -
B3	0.91 - 1.52 m	Light grey (2.5Y7/2-Moist); , 5YR66; Clay loam; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Nodules; Field pH 9.6 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

Project Name: LBV
Project Code: LBV **Site ID:** B88 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Project Name: LBV
Project Code: LBV **Site ID:** B88 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

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 - 0.08	6.2H	0.03B								
0.08 - 0.3	6.6H	0.02B								
0.3 - 0.46	7.8H	0.08B	5.3K	6.5	0.3	3.6	2.1D		17.8E	
0.46 - 0.69	9H	0.17B								
0.69 - 0.91	9.5H	0.2B			0.21	4.7			13.4E	
0.91 - 5.12	9.6H	0.18B								

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 - 0.08		0.7E	5C	0.008F	0.05B			4	32C	54	9	5
0.08 - 0.3					0.02B			7	31C	56	10	4
0.3 - 0.46	0.01C							11	19C	38	7	35
0.46 - 0.69								10	20C	42	11	30
0.69 - 0.91	0.26C							30	28C	20	5	24
0.91 - 5.12												

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 - 0.08									
0.08 - 0.3									
0.3 - 0.46									
0.46 - 0.69									
0.69 - 0.91									
0.91 - 5.12									

Project Name: **LBV**
Project Code: **LBV** **Site ID:** **B88** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

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