Project Name: LBV
Project Code: LBV **Site ID:** B17 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 14/10/48
Map Ref.: Sheet No. : 8358 1:100000
Northing/Long.: 147.111111111111
Easting/Lat.: -19.8861111111111
Locality:
Elevation: 38 metres
Rainfall: 800
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Cza
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.3 m deep,Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data
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):

Erosion:

Soil Classification

Australian Soil Classification:
Calcic Mottled-Subnatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy5.43
Great Soil Group: Solodized solonetz

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

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.12 m	Grey (10YR6/1-Moist); ; Sand; Single grain grade of structure; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Dry; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.2 (pH meter); Gradual change to -
A21	0.12 - 0.3 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Dry; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.9 (pH meter); Gradual change to -
A22	0.3 - 0.51 m	Pink (7.5YR7/4-Moist); ; Sand; Single grain grade of structure; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Dry; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.1 (pH meter); Gradual, Irregular change to -
A3	0.51 - 0.62 m	Light brown (7.5YR6/4-Moist); ; Sand; Massive grade of structure; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Dry; 0-2%, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.5 (pH meter); Abrupt, Irregular change to -
B21	0.62 - 0.84 m	Grey (10YR6/1-Moist); , 10YR66, 10-20% , 15-30mm, Distinct; , 5YR44, 10-20% , 15-30mm, Distinct; Medium clay; Strong grade of structure, 100-200 mm, Columnar; Moderately moist; Strong consistence; 0-2%, Quartz, coarse fragments; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.3 (pH meter); Diffuse change to -
B22	0.84 - 1.07 m	Grey (10YR6/1-Moist); , 10YR66, 10-20% , 15-30mm, Distinct; , 5YR44, 10-20% , 15-30mm, Distinct; Coarse sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; 0-2%, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.8 (pH meter); Diffuse change to -
B3	1.07 - 1.22 m	Grey (10YR6/1-Moist); , 10YR66, 10-20% , 15-30mm, Distinct; , 2.5Y62, 10-20% , 15-30mm, Distinct; Clay loam, coarse sandy; Massive grade of structure; Moist; Weak consistence; 0-2%, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

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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 - 0.12	6.2H	0.006B	0.6K	0.5	0.1	0.1	1.2D		2.5E	
0.12 - 0.3	5.9H	0.004B								
0.3 - 0.51	6.1H	0.004B								
0.51 - 0.62	6.5H	0.006B								
0.62 - 0.84	6.3H	0.024B	1.1K	5.8	0.11	1.8	4.1D		12.9E	
0.84 - 1.07	6.8H	0.046B								
1.07 - 1.22	9.8H	0.179B	2.6K	6.8	0.18	4.6			14.2E	

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 - 0.12			2C	0.005F	0.02B				37C	52	7	3
0.12 - 0.3												
0.3 - 0.51									37C	50	9	4
0.51 - 0.62												
0.62 - 0.84									27C	30	8	35
0.84 - 1.07												
1.07 - 1.22	1.18C								24C	42	6	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 - 0.12									
0.12 - 0.3									
0.3 - 0.51									
0.51 - 0.62									
0.62 - 0.84									
0.84 - 1.07									
1.07 - 1.22									

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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_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 (%)
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