Project Name: CAN
Project Code: CAN **Site ID:** C118 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: H.M. Churchwood
Date Desc.: 25/01/55
Map Ref.: Sheet No. : 7827 1:100000
Northing/Long.: 149.766666666667
Easting/Lat.: -35.4166666666667
Locality: Townsend County Parish Morago portion 60
Elevation: 120 metres
Rainfall: 410
Runoff: Slow
Drainage: Moderately well drained

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Slightly porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Valley flat
Slope: <1 %
Pattern Type: Flood plain
Relief: No Data
Slope Category: Level
Aspect: 125 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Vertic Calcic Brown Dermosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, , . *Species includes - Eucalytpus largiflorens, Casuarina leuhmannii

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Light yellowish brown (10YR6/4-Moist); , 10YR53, 2-10% ; Clay loam; Weak grade of structure, 10-20 mm, Platy; Very firm consistence; Field pH 7.4 (pH meter);
A2B2	0.05 - 0.1 m	Light grey (10YR7/2-Moist); , 10YR53, 20-50% ; Light clay; Weak grade of structure, 5-10 mm, Platy; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter); Wavy change to -
Bk	0.1 - 0.17 m	Brown (10YR4/3-Moist); ; Medium clay; 20-50 mm, Angular blocky; Strong grade of structure, 50-100 mm, Prismatic; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter); Clear change to -
Bk	0.17 - 0.3 m	Pale brown (10YR6/3-Moist); ; Medium clay; 10-20 mm, Angular blocky; Strong grade of structure, 50-100 mm, Prismatic; Very firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.2 (pH meter); Gradual change to -
Bk	0.3 - 0.46 m	Brown (10YR5/3-Moist); ; Medium clay; 20-50 mm, Angular blocky; Moderate grade of structure, 100-200 mm, Prismatic; Strong consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 9.4 (pH meter); Gradual change to -
Bk	0.46 - 0.56 m	Brown (10YR5/3-Moist); ; Medium clay; Very firm consistence; , Other, , Tubules; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 9.4 (pH meter);
C	0.79 - 0.86 m	Pale yellow (2.5Y7/3-Moist); , 5YR66, 2-10% ; Light clay; Very firm consistence; , Earthy, , Tubules; Field pH 9.3 (pH meter); Gradual, Irregular change to -

Morphological Notes

Observation Notes

PLEISTOCENE DEPOSITS POSSIBLY AEOLIAN ON RIVERINE SPASMODIC OCCURANCE OF THIS SOIL TYPE

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 - 0.05	7.4A	0.229A	9.7K	3.4	1.9	0.02	2.38E			
0.05 - 0.1	8.5A	0.229A								
0.1 - 0.17	8.7A	0.229A								
0.17 - 0.3	9.2A	0.182A								
0.3 - 0.46	9.4A	0.271A								
0.46 - 0.56	9.4A	0.366A								
0.79 - 0.86	9.3A	0.482A								

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 - 0.05		1.51D		0.059D	0.148B				28D	31	20	21
0.05 - 0.1		0.68D		0.045D	0.067B				25D	27	22	26
0.1 - 0.17		0.51D		0.047D	0.065B				21D	21	15	43
0.17 - 0.3									14D	20	16	50
0.3 - 0.46									17D	18	17	48
0.46 - 0.56									15D	16	24	45
0.79 - 0.86									16D	14	27	43

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 - 0.05									
0.05 - 0.1									
0.1 - 0.17									
0.17 - 0.3									
0.3 - 0.46									
0.46 - 0.56									
0.79 - 0.86									

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - 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
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7_NR	Total nitrogen (%) - Not recorded
9A_HCL	Total element - P(%) - By boiling HCl
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance