Project Name: CAN
Project Code: CAN **Site ID:** C115 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: H.M. Churchwood
Date Desc.: 27/04/55
Map Ref.: Sheet No. : 7827 1:100000
Northing/Long.: 144.683333333333
Easting/Lat.: -35.5
Locality: Townsend County far flood plain of previous stream
Elevation: 120 metres
Rainfall: 410
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

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: 0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Vertic Mesonatric Red Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Black earth

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Low Strata - Sod grass, , . *Species includes - None recorded
Mid Strata - Chenopod shrub, , . *Species includes - Atriplex vesicaria

Surface Coarse Fragments:

Profile Morphology

A1A2	0 - 0.08 m	Pinkish grey (7.5YR6/3-Moist); ; Clay loam; Weak grade of structure, 5-10 mm, Platy; Dry; Very firm consistence; Field pH 6.7 (pH meter);
B2	0.08 - 0.15 m	Reddish brown (5YR4/3-Moist); ; Heavy clay; Moderate grade of structure, 100-200 mm, Prismatic; 50-100 mm; Moderately moist; Very firm consistence; Field pH 7.7 (pH meter); Clear, Wavy change to -
B2	0.15 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Moderate grade of structure, 100-200 mm, Prismatic; 50-100 mm; Moderately moist; Very firm consistence; Field pH 7.8 (pH meter); Gradual change to -
B2	0.3 - 0.48 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; 10-20 mm; Moist; Very firm consistence; Field pH 7.3 (pH meter); Gradual change to -
B2	0.48 - 0.69 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; 10-20 mm; Moist; Very firm consistence; Field pH 6.4 (pH meter); Gradual change to -
	0.69 - 0.94 m	Reddish brown (5YR5/4-Moist); , 2.5Y52, 2-10% ; , 2-10% ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; 10-20 mm; Firm consistence; Few (2 - 10 %), Gypseous, Coarse (6 - 20 mm), ; Field pH 6.7 (pH meter);
	0.94 - 1.17 m	Olive grey (5Y5/2-Moist); , 5YR68, 0-2% ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; 10-20 mm; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Gypseous, Coarse (6 - 20 mm), ; Field pH 7.2 (pH meter);

Morphological Notes

Observation Notes

BILLABONG CLAY

Site Notes

DENIMEIN

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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 - 0.08	6.7A	0.167A								
0.08 - 0.15	7.7A	0.202A	7.2K	15.1	1.3	5.1	3.09E		28.7B	
0.15 - 0.3	7.8A	1.2A	6.7K	15.6	1.2	7.6	2.1E		31.1B	
0.3 - 0.48	7.3A	2.21A								
0.48 - 0.69	6.4A	2.89A								
0.69 - 0.94	6.7A	5.21A								
0.94 - 1.17	7.2A	3.48A								

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		1.64D			0.162B				13D	39	19	29
0.08 - 0.15		0.85D			0.088B				3D	17	13	67
0.15 - 0.3									3D	15	11	71
0.3 - 0.48									3D	16	13	68
0.48 - 0.69									2D	16	15	67
0.69 - 0.94									5D	14	24	57
0.94 - 1.17									4D	21	17	58

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 - 0.15									
0.15 - 0.3									
0.3 - 0.48									
0.48 - 0.69									
0.69 - 0.94									
0.94 - 1.17									

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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
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
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
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