

Project Name: CAN
Project Code: CAN **Site ID:** C114 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	H.M. Churchwood	Locality:	Townsend County Dahwilly TSR 1000 new flood plain of prior stream
Date Desc.:	20/04/55	Elevation:	120 metres
Map Ref.:	Sheet No. : 7827 1:100000	Rainfall:	410
Northing/Long.:	144.666666666667	Runoff:	Moderately rapid
Easting/Lat.:	-35.5	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Flood plain
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	2 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

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

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

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.05 m	Very pale brown (10YR7/4-Moist); ; Silty clay loam; Weak grade of structure, 5-10 mm, Platy; Dry; Very firm consistence; Field pH 6.8 (pH meter);
B2	0.05 - 0.17 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium heavy clay; 20-50 mm, Angular blocky; Moderate grade of structure, 100-200 mm, Prismatic; Moderately moist; Very firm consistence; Field pH 7.7 (pH meter); Clear, Wavy change to -
B2	0.17 - 0.43 m	Dark reddish brown (5YR3/4-Moist); ; Medium heavy clay; 20-50 mm, Angular blocky; Weak grade of structure, 100-200 mm, Prismatic; Moderately moist; Strong consistence; Field pH 8.1 (pH meter);
B2	0.43 - 0.56 m	Brown (7.5YR4/3-Moist); ; Medium heavy clay; 10-20 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; Field pH 8 (pH meter);
BCs	0.56 - 0.86 m	; Light clay; 10-20 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Weak consistence; Common (10 - 20 %), Gypseous, Fine (0 - 2 mm), Veins; Field pH 7.5 (pH meter);
	0.86 - 1.02 m	; Light clay; 10-20 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Weak consistence; Common (10 - 20 %), Gypseous, Medium (2 -6 mm), Soft segregations; Field pH 7.4 (pH meter);
	1.02 - 1.22 m	; Light clay; Very firm consistence; Few (2 - 10 %), Gypseous, Coarse (6 - 20 mm), Soft segregations; Field pH 7.4 (pH meter);
	1.22 - 1.4 m	Grey (5Y6/1-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Lenticular; Very firm consistence; Common (10 - 20 %), Earthy, Very coarse (20 - 60 mm), Soft segregations; Few (2 - 10 %), Gypseous, Coarse (6 - 20 mm), Soft segregations; Field pH 7.4 (pH meter);

Morphological Notes

Observation Notes

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Site Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations			Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
			Ca	Mg	K					
0 - 0.05	6.8A	0.092A	3.8K	3.4	1.3	0.58	3.83E		9.1B	
0.05 - 0.17	7.7A	0.068A	8.4K	11.4	1.2	4.3	4.13E		25.5B	
0.17 - 0.43	8.1A	0.227A	8.5K	12.6	1.1	6.9	1.52E		29.1B	
0.43 - 0.56	8A	2.04A								
0.56 - 0.86	7.5A	5.24A								
0.86 - 1.02	7.4A	5.29A								
1.02 - 1.22	7.4A	4.73A								
1.22 - 1.4	7.4A	3.69A								

Depth	CaCO ₃	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	CS	Size FS	Analysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m ³			%		
0 - 0.05		1.07D			0.111B				23D	24	32	21
0.05 - 0.17		0.68D			0.076B				15D	6	16	63
0.17 - 0.43									7D	15	16	62
0.43 - 0.56									2D	19	15	64
0.56 - 0.86					0.026B				9D	8	40	43
0.86 - 1.02									4D	12	28	56
1.02 - 1.22									6D	21	20	53
1.22 - 1.4									9D	28	11	52

[illegible]

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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