Project Name: CAN

Project Code: CAN Site ID: C123 Observation ID: 1

Agency Name: CSIRO Division of Soils (NSW)

**Site Information** 

Desc. By: H.M. Churchwood Locality: County Townsend Parish Morago portion 21 (near

s.w. corner) 150 metres

 Date Desc.:
 01/04/55
 Elevation:
 150

 Map Ref.:
 Sheet No.: 7827
 1:100000
 Rainfall:
 410

Northing/Long.: 144.766666666667 Runoff: Moderately rapid Easting/Lat.: -35.416666666667 Drainage: Poorly drained

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Unconsolidated material (unidentified)

**Land Form** 

Rel/Slope Class:Level plain <9m <1%</th>Pattern Type:Alluvial plainMorph. Type:FlatRelief:No DataElem. Type:Valley flatSlope Category:LevelSlope:<1 %</th>Aspect:100 degrees

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/ACalcic Subnatric Brown SodosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:Grey earth

No analytical data are available but confidence is fair.

Site Disturbance:

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

Mid Strata - Heath shrub, , . \*Species includes - Muehlenbeckia cunninghamii

Tall Strata - Tree, , . \*Species includes - Eucalytpus largiflorens

**Surface Coarse Fragments:** 

**Profile Morphology** 

A1A2 0 - 0.04 m Light brownish grey (2.5Y6/2-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Platy; Dry; Very firm consistence; Field pH 6.9 (pH meter); Bk 0.04 - 0.1 m Dark greyish brown (10YR4/2-Moist); ; Medium clay; 10-20 mm, Subangular blocky; Moderate grade of structure, 20-50 mm, Subangular blocky; Dry; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.3 (pH meter); Bk Brown (10YR4/3-Moist); ; Medium clay (Light); 10-20 mm, Angular blocky; Moderate grade of  $0.1 - 0.19 \, \text{m}$ structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9.4 (pH meter); Gradual change to Brown (10YR4/3-Moist); , 7.5YR43, 20-50%; , 20-50%; Medium clay (Light); Weak grade of structure, 20-50 mm, Subangular blocky; Dry; Very firm consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9.2 (pH meter); Gradual change to -Bk 0.19 - 0.33 m Brown (7.5YR4/3-Moist); ; Medium clay; Weak grade of structure, 50-100 mm, Subangular Bk 0.33 - 0.45 m blocky; Dry; Strong consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9.7 (pH meter); Yellowish brown (10YR5/4-Moist); ; Medium clay; Weak grade of structure, 50-100 mm, Bk 0.55 - 0.7 m Subangular blocky; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous,

0.83 - 0.98 m ; Medium clay (Light); 200-500 mm, Subangular blocky; Very firm consistence; Very few (0 - 2

%), Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.9 (pH meter);

C 1.2 - 1.37 m ; Sandy medium clay; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6

Medium (2 -6 mm), Concretions; Field pH 9.6 (pH meter);

mm), Concretions; Field pH 8.9 (pH meter);

1.68 - 1.91 m ; Sandy medium clay; Firm consistence; Field pH 7.4 (pH meter);

2.03 - 2.13 m; Medium clay; Very firm consistence; Field pH 6.6 (pH meter);

**Morphological Notes** 

**Observation Notes** 

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Site Notes DENIMEIN

Project Name: CAN
Project Code: CAN Site ID: C12
Agency Name: CSIRO Division of Soils (NSW) Site ID: C123 Observation ID: 1

Laboratory Test Results
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Depth	pH	1:5 EC	Evel	nangeable	Cations		Exchangeab	ole CEC	E	CEC	F	SP
Бериі	рп	1.3 EC		iangeable Ng	K	Na	Acidity	ne CEC		CEC		JF.
m		dS/m		Ū		Cmol (					9	6
0 - 0.04	6.9A	0.045A										
0.04 - 0.1	8.3A	0.043A 0.083A										
0.04 - 0.1	9.4A	0.063A 0.152A										
0.19 - 0.19	9.4A 9.2A	0.132A 0.176A										
0.19 - 0.33	9.7A	0.170A 0.292A										
0.55 - 0.45	9.6A	0.232A 0.536A										
0.83 - 0.98	8.9A	0.753A										
1.2 - 1.37	8.9A	0.887A										
1.68 - 1.91	7.4A	0.943A										
2.03 - 2.13	6.6A	1.03A										
2.00 2.10	0.071	1.00/1										
Depth	CaCO3	Organic	Avail.	Total	Total	Tota					nalysis	
	•	C	Р"	P	N	K	Densi		CS	FS	Silt (	Clay
m	%	%	mg/kg	%	%	%	Mg/m	3		%		
0 - 0.04					3.16	6A			25D	30	17	28
0.04 - 0.1					4.24				18D	21	22	39
0.1 - 0.19			4.66A						16D	19	19	46
0.19 - 0.33					4.36	SA			17D	20	17	46
0.33 - 0.45					4.06	SA			19D	20	20	41
0.55 - 0.7					4.2	Α			16D	23	18	43
0.83 - 0.98					4.02				17D	22	17	44
1.2 - 1.37					3.62				23D	19	17	41
1.68 - 1.91					3.95				18D	21	15	46
2.03 - 2.13					4.4	1A			15D	19	15	51
Depth	COLE	Sat. (	Gravi 0.05 Bar		lumetric W 0.5 Bar	ater Co	ntents 5 Bar	15 Bar	K sat	,	K unsat	
m		Jai. (	Dai		g - m3/m3		J Dai	io Bai	mm/h		mm/h	

0 - 0.04 0.04 - 0.1 0.1 - 0.19 0.19 - 0.33 0.33 - 0.45

0.33 - 0.45 0.55 - 0.7 0.83 - 0.98 1.2 - 1.37 1.68 - 1.91 2.03 - 2.13

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Project Code: Agency Name: **CSIRO Division of Soils (NSW)** 

## **Laboratory Analyses Completed for this profile**

2A1 Air-dry moisture content 3A1 EC of 1:5 soil/water extract 4A1

pH of 1:5 soil/water suspension
Chloride - 1:5 soil/water extract, automated colour
Total nitrogen - semimicro Kjeldahl , automated colour
Clay (%) - Plummet balance 5A2

7A2 P10\_PB\_C P10\_PB\_CS P10\_PB\_FS P10\_PB\_Z Coarse sand (%) - Plummet balance Fine sand (%) - Plummet balance Silt (%) - Plummet balance