

Project Name: CAN
Project Code: CAN **Site ID:** C143 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	H.M. Churchwood	Locality:	See C146
Date Desc.:	10/12/56	Elevation:	85 metres
Map Ref.:	Sheet No. : 7627 1:100000	Rainfall:	325
Northing/Long.:	143.583333333333	Runoff:	Very slow
Easting/Lat.:	-35.183333333334	Drainage:	Imperfectly drained

Geology

ExposureType:	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:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

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

Site Disturbance:

Vegetation:

Tall Strata - Tree, , . *Species includes - Eucalyptus largiflorens

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0.05 - 0.11 m	Reddish yellow (7.5YR6/6-Moist); , 7.5YR64; Sand; Weak grade of structure, 50-100 mm, Platy; Massive grade of structure; Very weak consistence; Field pH 7.2 (pH meter);
0.11 - 0.15 m	Light yellowish brown (10YR6/4-Moist); ; Sand; Massive grade of structure; Very weak consistence; Field pH 7.2 (pH meter);
0.2 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Sandy light clay (Heavy); Weak grade of structure, 50-100 mm, Prismatic; Weak consistence; Field pH 8.1 (pH meter);
0.3 - 0.41 m	Yellowish red (5YR4/6-Moist); , 5YR34; Sandy light clay (Heavy); Weak consistence; Field pH 9 (pH meter);
0.46 - 0.56 m	Yellowish red (5YR4/8-Moist); , 5YR58; Light clay (Heavy); Weak consistence; Field pH 9.4 (pH meter);
0.66 - 0.76 m	Reddish yellow (5YR6/8-Moist); , 5YR58; Light clay (Heavy); Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.6 (pH meter);
1.12 - 1.22 m	Strong brown (7.5YR5/6-Moist); ; Medium clay; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.8 (pH meter);
1.52 - 1.63 m	Strong brown (7.5YR5/8-Moist); ; Medium clay (Heavy); Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Other, , Tubules; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.9 (pH meter);
1.63 - 1.83 m	Yellowish red (5YR5/8-Moist); ; Medium clay; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.9 (pH meter);

Morphological Notes

Observation Notes

SOFT LIME APPEARS AT 43CM:NO LIME BY 178CM:CHANNEL FILL 46-76CM:VESICULAR TO 76CM

Site Notes

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MURRAKOOL

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				+	+/kg			%
0.05 - 0.11	7.2A	0.03A								
0.11 - 0.15	7.2A	0.03A								
0.2 - 0.3	8.1A	0.03A								
0.3 - 0.41	9A	0.15A	7.4K	5.2	0.89	0.25			13.7B	
0.46 - 0.56	9.4A	0.21A	9.9K	8	1.1	1.8			20.8B	
0.66 - 0.76	9.6A	0.27A								
1.12 - 1.22	9.8A	0.36A								
1.52 - 1.63	9.9A	0.45A								
1.63 - 1.83	9.9A	0.69A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.05 - 0.11									51D	34	6	1
0.11 - 0.15									49D	37	5	1
0.2 - 0.3	0.03A								46D	30	6	1
0.3 - 0.41	0.48A								42D	25	6	2
0.46 - 0.56	12.6A								26D	22	14	3
0.66 - 0.76	17.4A								20D	27	11	4
1.12 - 1.22	14.1A								17D	29	8	4
1.52 - 1.63	7.09A								25D	36	6	3
1.63 - 1.83	1.18A								18D	34	6	4

[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
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
19A1	Carbonates - rapid titration
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
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