

Project Name: CAN
Project Code: CAN **Site ID:** C148 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	H.M. Churchwood	Locality:	See C150 upslope of C149
Date Desc.:	12/12/56	Elevation:	90 metres
Map Ref.:	Sheet No. : 7726 1:100000	Rainfall:	325
Northing/Long.:	143.416666666667	Runoff:	Slow
Easting/Lat.:	-34.966666666667	Drainage:	Imperfectly drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Slightly porous, Sand

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Dunefield
Morph. Type:	Open depression (vale)	Relief:	No Data
Elem. Type:	Swale	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	270 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Petroclitic Red Kandosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A

All necessary analytical data are available.

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

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.04 m	Strong brown (7.5YR5/6-Moist); ; Sandy loam (Heavy); 20-50 mm, Angular blocky; Weak grade of structure, 20-50 mm, Platy; Weak consistence; Field pH 7.9 (pH meter);
0.04 - 0.13 m	Red (2.5YR5/8-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Very weak consistence; Field pH 8.2 (pH meter);
0.13 - 0.23 m	Yellowish red (5YR4/8-Moist); ; Sandy light clay (Light); Weak grade of structure, 10-20 mm, Subangular blocky; Very weak consistence; Field pH 8.7 (pH meter);
0.23 - 0.36 m	Yellowish red (5YR5/6-Moist); ; Sandy light clay (Heavy); Weak consistence; Few cutans, <10% of ped faces or walls coated; Field pH 8.9 (pH meter);
0.36 - 0.46 m	Reddish yellow (5YR6/6-Moist); ; Light medium clay; Weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Calcrete, Weakly cemented; Field pH 9.1 (pH meter);
0.51 - 0.61 m	Yellowish red (5YR5/6-Moist); ; Sandy light clay (Heavy); Weak consistence; , Other, Coarse (6 - 20 mm), Tubules; Common (10 - 20 %), Calcareous, , Soft segregations; Calcrete, Moderately cemented; Field pH 9.6 (pH meter);
0.66 - 0.76 m	Yellowish red (5YR5/6-Moist); ; Sandy light clay (Heavy); Weak consistence; , Other, Coarse (6 - 20 mm), Tubules; Common (10 - 20 %), Calcareous, , Concretions; Calcrete, Moderately cemented; Field pH 9.8 (pH meter);
1.12 - 1.22 m	Strong brown (7.5YR5/6-Moist); ; 5YR58, 2-10% ; , 2-10% ; Sandy light clay; Weak consistence; , Other, Coarse (6 - 20 mm), Tubules; Common (10 - 20 %), Calcareous, , Soft segregations; Calcrete, Moderately cemented; Field pH 9.9 (pH meter);
1.27 - 1.37 m	Strong brown (7.5YR5/6-Moist); ; 5YR58, 2-10% ; , 2-10% ; Sandy light clay; Weak consistence; Common (10 - 20 %), Calcareous, , Concretions; Calcrete, Moderately cemented; Field pH 9.9 (pH meter);
1.52 - 1.63 m	Strong brown (7.5YR5/6-Moist); ; Light clay; Firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Calcrete, Moderately cemented; Field pH 9.9 (pH meter);
1.98 - 2.13 m	Yellowish red (5YR5/8-Moist); ; Light clay; Firm consistence; Few cutans, <10% of ped faces or walls coated; Common (10 - 20 %), Calcareous, , Concretions; Calcrete, Weakly cemented; Field pH 9.9 (pH meter);

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- 2.43 - 2.54 m Yellowish red (5YR5/8-Moist); ; Light clay (Heavy); Firm consistence; Few cutans, <10% of ped faces or walls coated; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.1 (pH meter);
- 2.79 - 2.9 m Red (2.5YR4/8-Moist); ; Light clay; Very firm consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.1 (pH meter);
- 3.1 - 3.2 m Yellowish red (5YR5/6-Moist); ; Medium clay; Very firm consistence; Field pH 7.9 (pH meter);

Morphological Notes

Observation Notes

PLEISTOCENE AEOLIANITE LAYERS RE NUMBERED 19/10/92

Site Notes

MURRAKOOL

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3.1 - 3.2

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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)
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