

Project Name: CAN **Site ID:** C136 **Observation ID:** 1
Project Code: CAN **Agency Name:** CSIRO Division of Soils (NSW)

Site Information

Desc. By:	H.M. Churchwood	Locality:	Upslope from C137
Date Desc.:	01/11/56	Elevation:	90 metres
Map Ref.:	Sheet No. : 7627 1:100000	Rainfall:	325
Northing/Long.:	143.6	Runoff:	Moderately rapid
Easting/Lat.:	-35.2166666666667	Drainage:	Well 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:	Rolling plains <9m 10-32%	Pattern Type:	Plain
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	3 %	Aspect:	0 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Endohypersodic Regolithic Hypercalcic Calcarosol	Mapping Unit:	N/A
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	N/A
		Great Soil Group:	N/A

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Tall Strata - Malle shrub, . . *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1k	0 - 0.06 m	Reddish yellow (5YR6/6-Moist); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Field pH 8.4 (pH meter);
B1k	0.1 - 0.18 m	Reddish yellow (5YR6/6-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.7 (pH meter);
B2k	0.18 - 0.28 m	Reddish yellow (5YR6/6-Moist); , 5YR56, 0-2% , 5-15mm; , 0-2% , 5-15mm; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.7 (pH meter);
	0.28 - 0.37 m	Reddish yellow (5YR6/6-Moist); , 5YR56, 0-2% , 5-15mm; , 0-2% , 5-15mm; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.8 (pH meter);
	0.37 - 0.48 m	Reddish yellow (5YR6/6-Moist); , 5YR56, 0-2% , 5-15mm; , 0-2% , 5-15mm; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.3 (pH meter);
	0.48 - 0.58 m	Reddish yellow (5YR6/6-Moist); , 5YR56, 0-2% , 5-15mm; , 0-2% , 5-15mm; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.7 (pH meter);
	0.58 - 0.7 m	Yellowish red (5YR5/8-Moist); , 5YR66, 0-2% ; , 5YR56, 0-2% ; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.9 (pH meter);
	0.71 - 0.76 m	Yellowish red (5YR5/8-Moist); , 2.5YR48, 20-50% ; , 20-50% ; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Very weak consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.9 (pH meter);
	0.76 - 0.99 m	Yellowish red (5YR4/8-Moist); , 2.5YR48, 2-10% ; , 2-10% ; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.9 (pH meter);

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- 1.09 - 1.24 m Yellowish red (5YR4/8-Moist); , 2.5YR48; Light clay (Heavy); Weak grade of structure, 20-50 mm, Subangular blocky; Very weak consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.9 (pH meter);
- 1.3 - 1.42 m Reddish yellow (5YR6/8-Moist); , 5YR56, 2-10% ; , 2-10% ; Light clay (Heavy); Weak grade of structure, 20-50 mm, Subangular blocky; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.9 (pH meter);
- 1.52 - 1.68 m Reddish yellow (5YR6/8-Moist); , 2.5YR58, 10-20% ; , 10-20% ; Medium clay (Light); Firm consistence; Common (10 - 20 %), Calcareous, , Concretions; Calcrete, Moderately cemented; Field pH 9.7 (pH meter);
- 2.03 - 2.29 m Red (2.5YR5/8-Moist); ; Sandy clay loam; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Calcrete, Strongly cemented; Field pH 9.4 (pH meter);
- 2.44 - 2.74 m Red (2.5YR4/6-Moist); ; Sandy light clay; Weak consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Calcrete, Strongly cemented; Field pH 9.4 (pH meter);
- 2.84 - 2.95 m Red (2.5YR4/6-Moist); ; Sandy medium clay; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Calcrete, Strongly cemented; Field pH 9.3 (pH meter);
- 3.2 - 3.48 m Red (2.5YR5/8-Moist); , 2.5YR46, 2-10% ; , 5YR68, 2-10% ; Sandy medium clay; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter);
- 4.06 - 4.22 m Red (2.5YR4/6-Moist); , 5Y72, 2-10% ; , 2-10% ; Heavy clay; Firm consistence; Field pH 8.9 (pH meter);

Morphological Notes

K1K2
K2K3

Observation Notes

K1 SAND WITH PARNA VESICULAR TO ~40CM

Site Notes

MURRAKOOL

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Laboratory Test Results:

Depth m	CaCO3	Organic C	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Size FS %	Analysis	Silt	Clay
	%	%					Mg/m3	CS				
0 - 0.06	0.16A							51D	30	8	11	
0.1 - 0.18	1.5A							45D	30	6	19	
0.18 - 0.28	3.19A							45D	30	8	17	
0.28 - 0.37	4.49A							41D	31	8	20	
0.37 - 0.48	4.79A							40D	29	7	24	
0.48 - 0.58	5.99A							39D	32	8	21	
0.58 - 0.7	10.1A							36D	29	10	25	
0.71 - 0.76	13.2A							38D	27	9	26	
0.76 - 0.99	18.9A							36D	30	10	24	
1.09 - 1.24	20.6A							36D	31	8	25	
1.3 - 1.42	20.2A							39D	32	10	19	
1.52 - 1.68	25A							40D	32	8	20	
2.03 - 2.29	6.16A							45D	30	3	22	
2.44 - 2.74	27.2A							38D	29	10	23	
2.84 - 2.95	24.7A							29D	30	10	31	
3.2 - 3.48	21.6A							23D	23	8	36	
4.06 - 4.22	1.11A							23D	27	6	44	

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2.03 - 2.29
2.44 - 2.74
2.84 - 2.95
3.2 - 3.48
4.06 - 4.22

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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