Project Name: CAN
Project Code: CAN **Site ID:** C150 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: H.M. Churchwood
Date Desc.: 13/12/56
Map Ref.: Sheet No. : 7726 1:100000
Northing/Long.: 143.416666666667
Easting/Lat.: -34.9666666666667
Locality: Parish Wakool between 6 & 2:1KM south of north boundary
Elevation: 85 metres
Rainfall: 325
Runoff: Very slow
Drainage: Poorly drained

Geology

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

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%
Morph. Type: Open depression (vale)
Elem. Type: Swale
Slope: 1 %
Pattern Type: Dunefield
Relief: No Data
Slope Category: Very gently sloped
Aspect: 270 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Epihypersodic Epipedal Red Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Brown clay

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

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded
Tall Strata - Malle shrub, , . *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.03 m	Reddish brown (5YR4/4-Moist); , 7.5YR64; Sandy light clay; 10-20 mm, Angular blocky; Weak grade of structure, 20-50 mm, Platy; Weak consistence; Field pH 7.9 (pH meter);
0.05 - 0.15 m	Dark reddish brown (5YR3/4-Moist); ; Sandy medium clay; 5-10 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Firm consistence; Field pH 8.8 (pH meter);
0.15 - 0.23 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.4 (pH meter);
0.23 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Medium clay (Light); Firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.3 (pH meter);
0.3 - 0.41 m	Yellowish red (5YR4/6-Moist); ; Light clay; Firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter);
0.46 - 0.56 m	Yellowish red (5YR4/6-Moist); ; Light clay; Firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter);
0.61 - 0.71 m	Yellowish red (5YR5/6-Moist); ; Light clay; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Field pH 9 (pH meter);
0.81 - 0.91 m	Yellowish red (5YR5/6-Moist); ; Light clay; Firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter);
1.12 - 1.22 m	Strong brown (7.5YR5/6-Moist); , 7.5YR72, 2-10% ; , 2-10% ; Light medium clay; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9.1 (pH meter);
1.37 - 1.47 m	Yellowish brown (10YR5/4-Moist); , 10YR72; Medium clay; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 9 (pH meter);

Morphological Notes

Observation Notes

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PLEISTOCENE AEOLIANITE:TERMITE CHANNELS TO 30CM:VESICULAR TO 40CM

Site Notes

MURRAKOOL

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.03	7.9A	0.06A	6.5K	3	1	0.52	1.6E		12.6B	
0.05 - 0.15	8.8A	0.15A	11K	9.4	1.8	3.5			25.7B	
0.15 - 0.23	9.4A	0.863A								
0.23 - 0.3	9.3A	1.34A								
0.3 - 0.41	9.1A	1.93A	7.6K	12.1	1.4	8.6			29.7B	
0.46 - 0.56	9.1A	2.23A								
0.61 - 0.71	9A	2.17A	4.6K	10.1	1.1	8.4			24.2B	
0.81 - 0.91	9.1A	2.05A	7.7K	11.3	1.1	8.4			28.5B	
1.12 - 1.22	9.1A	2.05A								
1.37 - 1.47	9A	2.17A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.03	0.05A								43D	34	10	13
0.05 - 0.15	0.06A								24D	24	12	39
0.15 - 0.23	5.57A								25D	25	12	39
0.23 - 0.3	8.42A								26D	25	10	39
0.3 - 0.41	11.1A								24D	22	13	42
0.46 - 0.56	18A								15D	18	13	53
0.61 - 0.71												
0.81 - 0.91	16.8A											
1.12 - 1.22	10.6A								12D	22	12	51
1.37 - 1.47												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.03									
0.05 - 0.15									
0.15 - 0.23									
0.23 - 0.3									
0.3 - 0.41									
0.46 - 0.56									
0.61 - 0.71									
0.81 - 0.91									
1.12 - 1.22									
1.37 - 1.47									

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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