Project Name: CAN
Project Code: CAN **Site ID:** C149 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: H.M. Churchwood
Date Desc.: 12/12/56
Map Ref.: Sheet No. : 7726 1:100000
Northing/Long.: 143.416666666667
Easting/Lat.: -34.9666666666667
Locality: See C150 upslope C150
Elevation: 85 metres
Rainfall: 325
Runoff: Slow
Drainage: Imperfectly 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: 2 %
Pattern Type: Dunefield
Relief: No Data
Slope Category: Very gently sloped
Aspect: 270 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

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

Site Disturbance:

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.05 m	Light brown (7.5YR6/4-Moist); ; Clay loam, fine sandy; Weak grade of structure, 50-100 mm, Angular blocky; Very weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.8 (pH meter);
0.05 - 0.13 m	Light brown (7.5YR6/4-Moist); ; Clay loam, fine sandy (Heavy); Moderate grade of structure, 10-20 mm, Subangular blocky; Very weak consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Field pH 8.9 (pH meter);
0.13 - 0.2 m	Light reddish brown (5YR6/4-Moist); ; Clay loam, fine sandy (Light); Weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.9 (pH meter);
0.2 - 0.3 m	Reddish yellow (7.5YR6/6-Moist); ; Clay loam, fine sandy (Light); Weak consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions; Calcrete, Weakly cemented; Field pH 9.4 (pH meter);
0.3 - 0.41 m	Reddish yellow (7.5YR6/6-Moist); ; Light clay; Weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Calcrete, Moderately cemented; Field pH 9.9 (pH meter);
0.46 - 0.56 m	Reddish yellow (7.5YR6/6-Moist); , 7.5YR76, 20-50% ; , 20-50% ; Light clay (Heavy); Weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Calcrete, Moderately cemented; Field pH 9.9 (pH meter);
0.66 - 0.76 m	Reddish yellow (7.5YR6/6-Moist); ; Medium clay; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Calcrete, Moderately cemented; Field pH 9.9 (pH meter);
0.81 - 0.91 m	Reddish yellow (5YR6/8-Moist); , 7.5YR72, 2-10% ; , 2-10% ; Medium clay; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Calcrete, Weakly cemented; Field pH 9.9 (pH meter);
0.97 - 1.02 m	Yellowish red (5YR5/6-Moist); , 7.5YR72, 2-10% ; , 2-10% ; Medium clay; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Concretions; Field pH 9.5 (pH meter);

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1.37 - 1.47 m Reddish yellow (7.5YR6/6-Moist); , 7.5YR72, 2-10% ; , 2-10% ; 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 9.3 (pH meter);

Morphological Notes

Observation Notes

PLEISTOCENE AEOLIANITE:VESICULAR TO 40CM LAYERS RE NUMBERED 19/10/92

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 - 0.05	8.8A	0.12A	17.5K	2.5	1.3	0.12			21.4B	
0.05 - 0.13	8.9A	0.12A								
0.13 - 0.2	8.9A	0.12A								
0.2 - 0.3	9.4A	0.15A	8.8K	6.1	0.35	0.59			15.8B	
0.3 - 0.41	9.9A	0.3A								
0.46 - 0.56	10.1A	0.42A								
0.66 - 0.76	10A	0.56A	4.9K	7.5	0.67	5.3			18.4B	
0.81 - 0.91	9.9A	0.83A								
0.97 - 1.02	9.5A	1.31A	3.3K	10	0.98	7.9			22.2B	
1.37 - 1.47	9.3A	1.7A								

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 - 0.05	7.88A								35D	39	14	11
0.05 - 0.13	14A								31D	35	16	19
0.13 - 0.2	19.7A								29D	38	17	17
0.2 - 0.3	29.3A								31D	35	16	19
0.3 - 0.41	38.9A								32D	33	14	21
0.46 - 0.56	39.2A								32D	29	14	25
0.66 - 0.76	32A											
0.81 - 0.91	10.7A								25D	31	10	33
0.97 - 1.02	5.03A											
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 - 0.05									
0.05 - 0.13									
0.13 - 0.2									
0.2 - 0.3									
0.3 - 0.41									
0.46 - 0.56									
0.66 - 0.76									
0.81 - 0.91									
0.97 - 1.02									
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
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