Project Name: CAN
Project Code: CAN **Site ID:** CP124 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (VIC)

Site Information

Desc. By: C.L. Watson
Date Desc.: 12/10/78
Map Ref.: Sheet No. : 7125 1:100000
Northing/Long.: 141.15
Easting/Lat.: -36.3666666666667
Locality: Down Telopea Downs Road from Lillimur
Elevation: 150 metres
Rainfall: 420
Runoff: No runoff
Drainage: Imperfectly drained

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Non-porous, dense, Limestone

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: Level
Aspect: No Data

Surface Soil Condition (dry): Self-mulching, Recently cultivated

Erosion:

Soil Classification

Australian Soil Classification:
Endocalcareous-Endohypersodic Self-Mulching Black Vertosol
Mapping Unit: N/A
Principal Profile Form: Ug5.11
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: Rendzina

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.05 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Granular; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.1 (pH meter);
0.05 - 0.2 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Field pH 8.1 (pH meter);
0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Field pH 8.3 (pH meter);
0.3 - 0.4 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Field pH 8.3 (pH meter);
0.4 - 0.5 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Field pH 8.5 (pH meter);
0.5 - 0.6 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Field pH 8.7 (pH meter);
0.6 - 0.7 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; 2-5 mm, Angular blocky; Strong consistence; Moderately plastic; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.9 (pH meter);
0.7 - 0.8 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; 5-10 mm, Angular blocky; Strong consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 9.1 (pH meter);
0.8 - 0.9 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; 5-10 mm, Angular blocky; Strong consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 9.2 (pH meter);
0.9 - 1 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; 5-10 mm, Angular blocky; Strong consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 9.2 (pH meter);
1 - 1.1 m	Greyish brown (2.5Y5/2-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter);

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1.1 - 1.2 m	Greyish brown (2.5Y5/2-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 9.2 (pH meter);
1.2 - 1.3 m	Pale brown (10YR6/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9.3 (pH meter);
1.3 - 1.4 m	Pale brown (10YR6/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 9.5 (pH meter);
1.4 - 1.5 m	Pale brown (10YR6/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 9.6 (pH meter);
1.5 - 1.6 m	Pale brown (10YR6/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Concretions;
1.6 - 1.7 m	Pale brown (10YR6/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Soft segregations;
1.7 - 1.8 m	Pale brown (10YR6/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Concretions;
1.8 - 1.9 m	Pale brown (10YR6/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Soft segregations;
1.9 - 2 m	Pale brown (10YR6/3-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Concretions;

Morphological Notes

Observation Notes

>5CM SOME SHINY PED SURFACES

Site Notes

LILLIMUR

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.05	8.1A	0.16A	34.4K	4.2	3	0.51	5.5B	47.6J		1.07
0.05 - 0.2	8.1A	0.17A								
0.2 - 0.3	8.3A	0.13A								
0.3 - 0.4	8.3A	0.16A								
0.4 - 0.5	8.5A	0.2A								
0.5 - 0.6	8.7A	0.19A								
0.6 - 0.7	8.9A	0.28A								
0.7 - 0.8	9.1A	0.33A								
0.8 - 0.9	9.2A	0.45A								
0.9 - 1	9.2A	0.58A								
1 - 1.1	9.1A	0.56A								
1.1 - 1.2	9.2A	0.66A								
1.2 - 1.3	9.3A	0.59A								
1.3 - 1.4	9.5A	0.48A								
1.4 - 1.5	9.6A	0.39A								

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	1.63A	1.74D							6D	24	6	56
0.05 - 0.2												
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.5 - 0.6												
0.6 - 0.7												
0.7 - 0.8												
0.8 - 0.9												
0.9 - 1												
1 - 1.1												
1.1 - 1.2												
1.2 - 1.3												
1.3 - 1.4												
1.4 - 1.5												

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								0.24B		
0.05 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.5										
0.5 - 0.6										
0.6 - 0.7										
0.7 - 0.8										
0.8 - 0.9										
0.9 - 1										
1 - 1.1										

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1.1 - 1.2
1.2 - 1.3
1.3 - 1.4
1.4 - 1.5

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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_CEC	CEC - 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
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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
P3B_GV_15	15 BAR Moisture g/g - Gravimetric using pressure plate