Project Name: CAN
Project Code: CAN **Site ID:** CP77 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P.H. Walker	**Locality:**	Sand sheet on hillside - aeolian
Date Desc.:	01/05/77	**Elevation:**	680 metres
Map Ref.:	Sheet No. : 8727 1:100000	**Rainfall:**	640
Northing/Long.:	149.160555555556	**Runoff:**	Slow
Easting/Lat.:	-35.3025	**Drainage:**	Well drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	2 m deep,Porous, Sand

Land Form

Rel/Slope Class:	Rolling hills 90-300m 10-32%	**Pattern Type:**	Hills
Morph. Type:	Upper-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Steep
Slope:	20 %	**Aspect:**	125 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Basic Regolithic Orthic Tenosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Uc
Great Soil Group: Red earth

Site Disturbance: No effective disturbance. Natural

Vegetation:
Tall Strata - Tree, , . *Species includes - Eucalyptus species

Surface Coarse Fragments:

Profile Morphology

AB	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 6.2 (pH meter); Gradual change to -
AB	0.1 - 0.2 m	Dark reddish brown (5YR3/3-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 6.2 (pH meter); Gradual change to -
A/B	0.2 - 0.3 m	Reddish brown (5YR4/4-Moist); , 5YR33, 2-10% ; , 2-10% ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 6.5 (pH meter); Clear change to -
B1	0.3 - 0.4 m	Reddish brown (2.5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 5.5 (pH meter); Gradual change to -
B2	0.4 - 0.5 m	Reddish brown (2.5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 5.2 (pH meter); Gradual change to -
B2	0.5 - 0.6 m	Reddish brown (2.5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 5.7 (pH meter); Gradual change to -
B2	0.6 - 0.7 m	Reddish brown (2.5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 6.5 (pH meter); Gradual change to -
B2	0.7 - 0.8 m	Reddish brown (2.5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 6.4 (pH meter); Gradual change to -
B2	0.8 - 0.9 m	Reddish brown (2.5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 6.3 (pH meter); Gradual change to -
B2C	0.9 - 1 m	Reddish brown (2.5YR4/4-Moist); ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; Field pH 6.4 (pH meter); Gradual change to -
BC	1 - 1.1 m	Reddish brown (2.5YR4/4-Moist); ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Loose consistence; Field pH 6.4 (pH meter);

Morphological Notes

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Site Notes

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Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	6.2A	<0.04A	2.1K	0.45	0.16	0.05	2.7B	5.5J		0.91
0.1 - 0.2	6.2A	<0.04A								
0.2 - 0.3	6.5A	<0.04A	1.6K	0.36	0.15	0.04	1.3B	3.5J		1.14
0.3 - 0.4	5.5A	<0.04A								
0.4 - 0.5	5.2A	<0.04A	0.6K	0.28	0.18	0.04	2.9B	4J		1.00
0.5 - 0.6	5.7A	<0.04A								
0.6 - 0.7	6.5A	<0.04A	2.1K	0.58	0.3	0.08	1.9B	5J		1.60
0.7 - 0.8	6.4A	<0.04A								
0.8 - 0.9	6.3A	<0.04A								
0.9 - 1	6.4A	<0.04A	1K	0.22	0.12	0.09	1.1B	2.5J		3.60
1 - 1.1	6.4A	<0.04A								

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 - 0.1		0.54D			0.05B							
0.1 - 0.2		0.7D			0.054B							
0.2 - 0.3		0.32D			0.021B							
0.3 - 0.4		0.25D			0.015B							
0.4 - 0.5		0.19D			0.013B							
0.5 - 0.6		0.14D			0.008B							
0.6 - 0.7		0.09D			0.01B							
0.7 - 0.8		0.08D			0.008B							
0.8 - 0.9		0.06D			0.004B							
0.9 - 1		0.04D			0.003B							
1 - 1.1		0.04D										

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m					g/g - m3/m3				mm/h	mm/h
0 - 0.1										
0.1 - 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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Laboratory Analyses Completed for this profile

13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
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
7_NR	Total nitrogen (%) - Not recorded