Project Name: CAN

Project Code: CAN Site ID: CP134 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P.H. Walker Locality: 200M C'berra side of Old Rd Bridge over r'way h'crest

above rd cutting:

Date Desc.: 450 metres 02/01/79 Elevation: Sheet No. : S155-16 Rainfall: Map Ref.: 1:250000 640 Northing/Long.: 149.208333333333 Runoff: Slow Easting/Lat.: -35.34444444445 Drainage: No Data

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Slightly porous, Sandstone

Land Form

Rel/Slope Class: Gently undulating rises 9-30m Pattern Type: Low hills

blocky; Very strong consistence;

1-3%

Morph. Type:FlatRelief:10 metresElem. Type:Valley flatSlope Category:Gently inclinedSlope:1 %Aspect:315 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ABleached Eutrophic Red ChromosolPrincipal Profile Form:N/A

ASC Confidence: Great Soil Group: Red podzolic soil

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

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

Surface Coarse Fragments:

Profile	<u>Morphology</u>	
A1	0 - 0.08 m	Brown (7.5YR5/2-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; Field pH 5.5 (pH meter); Clear change to -
A2	0.08 - 0.18 m	Brown (7.5YR5/2-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence;
A2	0.18 - 0.3 m	Light brown (7.5YR6/4-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; Field pH 5.2 (pH meter); Diffuse change to -
A3	0.3 - 0.4 m	Light reddish brown (5YR6/4-Moist); ; Loamy sand; Massive grade of structure; Loose consistence; Sharp change to -
B21	0.4 - 0.53 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Moderate grade of structure, Subangular blocky; Very strong consistence; Field pH 6 (pH meter);
B22	0.53 - 0.6 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Moderate grade of structure, Subangular blocky; Very strong consistence; Diffuse change to -
В3	0.6 - 0.8 m	Dark red (2.5YR3/6-Moist); ; Medium heavy clay; Moderate grade of structure, Subangular blocky; Very strong consistence; Field pH 6.8 (pH meter);
В3	0.8 - 1 m	Dark red (2.5YR3/6-Moist); ; Medium heavy clay; Moderate grade of structure, Subangular blocky; Very strong consistence; Diffuse change to -
С	1 - 1.2 m	Very pale brown (10YR7/4-Moist); ; Light medium clay; Moderate grade of structure, Subangular blocky; Very strong consistence; Field pH 7.5 (pH meter);
С	1.2 - 1.4 m	Very pale brown (10YR7/4-Moist); ; Light medium clay; Moderate grade of structure, Subangular

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC		ECEC	E	SP
m		dS/m	ou .	y		Cmol (+	•				ģ	%
0 - 0.08	5.5A	0.05A	2.7K	0.86	0.35	0.06	8.6B	12.6	J		_	.48
0.18 - 0.3	5.2A	0.02A	0.1K	0.32	0.12	0.02	1.5B	2J			1	.00
0.4 - 0.53	6A	0.1A	3.3K	4.4	0.75	0.53	8.4B	17.4	J		3	.05
0.6 - 0.8	6.8A	0.18A	3.8K	5.3	0.7	0.85	5.2B	15.9	J		5	.35
1 - 1.2	7.5A	0.24A	3.5K	6.1	0.46	1.2	1.4B	12.7	J		9	.45
Depth	CaCO3	Organic	Avail.	Total	Total	Total			rticle		Analysis	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
•••	70	70	mg/kg	70	70	70	Mg/mo			70		
0 - 0.08		2.31D						3	14D	58	13	12
0.18 - 0.3		0.18D						4	17D	62	13	5
0.4 - 0.53		0.41D							9D	30	10	51
0.6 - 0.8		0.12D							9D	30	13	48
1 - 1.2		0.04D						1	14D	35	12	39
Depth	COLE	DLE Gravimetric/Volumetric Water Contents								at	K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m	1 Bar 3	5 Bar 15	Bar	mm	/h	mm/h	

0 - 0.08 0-0.08 0.18 - 0.3 0.4 - 0.53 0.6 - 0.8 1 - 1.2

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Laboratory Analyses Completed for this profile

13_C_FE Extractable Fe(%) - Method recorded as C

13A1_AL Oxalate-extractable aluminium
13A1_FE Oxalate-extractable iron
13C1_AL Citrate/dithionite-extractable iro

13C1_AL 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 Exch. basic cations (Na++) - meq per 100g of soil - Not recorded 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

6A1_UC Organic ca P10_GRAV Gravel (%)

P10_PB_C
P10_PB_CS
Clay (%) - Plummet balance
Coarse sand (%) - Plummet balance
P10_PB_FS
P10_PB_Z
Clay (%) - Plummet balance
Fine sand (%) - Plummet balance
Silt (%) - Plummet balance