Project Name: CAN

Project Code: CAN Site ID: C7 Observation ID: 1

Agency Name: CSIRO Division of Soils (NSW)

**Site Information** 

Desc. By: D.C. van Dijk Locality: Near W boundary 12M from road 60M from N boundary

 Date Desc.:
 13/10/53
 Elevation:
 150 metres

 Map Ref.:
 Sheet No.: 8128
 1:100000
 Rainfall:
 410

 Northing/Long.:
 146.2166666666667
 Runoff:
 Slow

**Easting/Lat.:** -34.6 **Drainage:** Poorly drained

**Geology** 

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data Substrate Material: No Data

**Land Form** 

Rel/Slope Class:Level plain <9m <1%</th>Pattern Type:Alluvial plainMorph. Type:Closed DepressionRelief:No DataElem. Type:SwampSlope Category:Very gently slopedSlope:<1 %</th>Aspect:270 degrees

Surface Soil Condition (dry): Firm

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AVertic Hypercalcic Red DermosolPrincipal Profile Form:N/A

ASC Confidence: Great Soil Group: Red-brown earth

All necessary analytical data are available.

 Site Disturbance:
 Extensive clearing, for example poisoning, ringbarking

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

Tall Strata - Tree, , . \*Species includes - Eucalytpus largiflorens

**Surface Coarse Fragments:** 

**Profile Morphology** 

0 - 0.04 m Greyish brown (2.5Y5/2-Moist); ; Sandy light clay; Weak grade of structure, 20-50 mm, Angular

blocky; Firm consistence; Field pH 6.7 (pH meter);

0.13 - 0.22 m Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay (Light); Weak grade of structure, 200-500 mm,

Prismatic; Very firm consistence; Very few (0 - 2%), Ferruginous, , Soft segregations; Field pH

7.5 (pH meter);

0.22 - 0.33 m Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay (Light); Weak grade of structure, Angular blocky;

Weak grade of structure, 50-100 mm, Angular blocky; Very firm consistence; , Ferruginous, , Soft segregations; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 7.9 (pH meter);

0.46 - 0.66 m Light brownish grey (2.5Y6/3-Moist); ; Medium clay (Heavy); , Lenticular; Weak grade of structure,

50-100 mm, Platy; Firm consistence; , Ferruginous, , Soft segregations; Few (2 - 10 %),

Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.3 (pH meter);

0.79 - 0.99 m Light brownish grey (2.5Y6/3-Moist); ; Light medium clay; , Lenticular; Weak grade of structure,

50-100 mm, Platy; Weak consistence; , Ferruginous, , Soft segregations; Common (10 - 20 %),

Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.5 (pH meter);

1.55 - 1.73 m Light olive grey (5Y6/2-Moist); , 7.5YR58, 20-50% ; , 20-50% ; Medium clay; Moderate grade of

structure, 20-50 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, ,

Concretions; Field pH 8.3 (pH meter);

2.59 - 2.74 m ; Sandy medium clay; Firm consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH

8.3 (pH meter);

**Morphological Notes** 

**Observation Notes** 

TONGUES OF A HORIZON TO ~33CM

Site Notes

WHITTON YANCO

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## **Laboratory Test Results:**

Depth	рН	1:5 EC		hangeable Mg	Cations K	Na E	Exchangeable Acidity	CEC	E	CEC	E	SP
m		dS/m	,a	wig	K	Cmol (+)					9	6
0 - 0.04	6.7A	0.031C	7.6K	4.8	1.1	0.65	6.1E		2	0.3B		
0.13 - 0.22	7.4A	0.027C	8.6K	5.9	1	1.1	3.9E		2	0.5B		
0.22 - 0.33	7.5A	0.04C	11.5K	8.2	1.1	2.9	4.3E			28B		
0.46 - 0.66	7.9A	0.083C	13.5K	10.4	1.2	4.3			2	9.4B		
0.79 - 0.99	8.3A	0.28C										
1.55 - 1.73	8.5A	0.35C										
2.59 - 2.74	8.3A	0.33C										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article S	Size A	nalysis	
		C	Р	Р	N	K	Density	GV		FS	-	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04				0.0320	-				12D	36	14	33
0.13 - 0.22				0.026D	0.07	′1B			13D	32	15	37
0.22 - 0.33									9D	18	9	56
0.46 - 0.66	<0.01								5D	14	7	67
0.79 - 0.99	0.12								2D	9	5	77
1.55 - 1.73	2.3A								3D	11	12	72
2.59 - 2.74	0.34 <i>A</i>	4							27D	19	9	46
Depth	COLE Gravimetric/Volumetric Water Contents								K sat	: 1	K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar				
m				g/g	g - m3/m	3			mm/h	l	mm/h	

0 - 0.04 0.13 - 0.22 0.22 - 0.33 0.46 - 0.66

0.79 - 0.99 1.55 - 1.73 2.59 - 2.74

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## **Laboratory Analyses Completed for this profile**

15\_NR\_CAExch. basic cations (Ca++) - meq per 100g of soil - Not recorded15\_NR\_KExch. basic cations (K++) - meq per 100g of soil - Not recorded15\_NR\_MGExch. basic cations (Mg++) - meq per 100g of soil - Not recorded15\_NR\_NAExch. 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 Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)

19A1 Carbonates - rapid titration 2\_LOI Loss on Ignition (%) 2A1 Air-dry moisture content

3A\_TSS Electrical conductivity or soluble salts - Total soluble salts %

4A1 pH of 1:5 soil/water suspension

5A2 Chloride - 1:5 soil/water extract, automated colour

7\_NR
Total nitrogen (%) - Not recorded
9A\_HCL
P10\_PB\_C
P10\_PB\_CS
P10\_PB\_FS
P10\_PB\_Z
Total nitrogen (%) - Plummet balance
Clay (%) - Plummet balance
P10\_PB\_Z
Fine sand (%) - Plummet balance
Silt (%) - Plummet balance