

Project Name: CAN
Project Code: CAN **Site ID:** C8 **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.:	146.216666666667	Runoff:	No runoff
Easting/Lat.:	-34.5833333333334	Drainage:	Very poorly drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Slightly porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial plain
Morph. Type:	Closed Depression	Relief:	No Data
Elem. Type:	Swamp	Slope Category:	Very gently sloped
Slope:	<1 %	Aspect:	225 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Epicalcareous-Endohypersodic Epipedal Grey Vertosol	Mapping Unit:	N/A
ASC Confidence:	Analytical data are incomplete but reasonable confidence.	Principal Profile Form:	N/A
		Great Soil Group:	Grey clay

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus largiflorens

Surface Coarse Fragments: 0-2%, , , Quartz

Profile Morphology

A1	0 - 0.04 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , ; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 7.9 (pH meter); Gradual change to -
B11	0.04 - 0.14 m	Greyish brown (2.5Y5/3-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , ; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 8.4 (pH meter); Gradual change to -
B12	0.14 - 0.28 m	Greyish brown (2.5Y5/3-Moist); ; Heavy clay; Moderate grade of structure, 100-200 mm, Angular blocky; Moderately moist; Weak consistence; 0-2%, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , ; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 8.7 (pH meter); Gradual change to -
B21	0.28 - 0.46 m	Greyish brown (2.5Y5/3-Moist); ; Heavy clay; Strong grade of structure, 200-500 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , ; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 8.9 (pH meter);
B22	0.56 - 0.71 m	Light brownish grey (2.5Y6/3-Moist); ; Heavy clay (Light); Weak grade of structure, 100-200 mm, Platy; Moderate grade of structure, 200-500 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , ; Few (2 - 10 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.9 (pH meter);
C11	0.76 - 1.04 m	Light brownish grey (2.5Y6/3-Moist); ; Medium clay; 50-100 mm, Lenticular; Weak grade of structure, 100-200 mm, Platy; Moderately moist; Firm consistence; 0-2%, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , ; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 8.6 (pH meter);
C12	1.37 - 1.5 m	Light brownish grey (2.5Y6/3-Moist); ; Moderately moist; Weak consistence; Few (2 - 10 %), Calcareous, , ; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 8.5 (pH meter);

Morphological Notes

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Observation Notes

WIDGELLI SURFACE WUNNAMURRA CLAY POORLY STRUCTURED PHASE

Site Notes

WHITTON YANCO

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.04	7.9A	0.036C	17.8K	9.8	2.4	0.46		30.5B	
0.04 - 0.14	8.4A	0.034C	17.8K	10.3	1.7	0.71		30.5B	
0.14 - 0.28	8.7A	0.051C							
0.28 - 0.46	8.9A	0.081C							
0.56 - 0.71	8.9A	0.14C							
0.76 - 1.04	8.6A	0.3C							
1.37 - 1.5	8.5A	0.41C							

[illegible][illegible]

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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
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	Total element - P(%) - By boiling HCl
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