

Project Name: CAN
Project Code: CAN **Site ID:** C3 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	D.C. van Dijk	Locality:	County Cooper Parish Dallas Portion 85
Date Desc.:	08/10/53	Elevation:	150 metres
Map Ref.:	Sheet No. : 8128 1:100000	Rainfall:	410
Northing/Long.:	146.216666666667	Runoff:	Slow
Easting/Lat.:	-34.6	Drainage:	Very poorly drained

Geology

ExposureType:	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:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Closed Depression	Relief:	No Data
Elem. Type:	Swamp	Slope Category:	Level
Slope:	<1 %	Aspect:	0 degrees

Surface Soil Condition (dry): Firm, Trampled

Erosion:

Soil Classification

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

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

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

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, , Quartz

Profile Morphology

A1	0 - 0.04 m	; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 7.4 (pH meter);
A12	0.04 - 0.1 m	; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Field pH 7.6 (pH meter);
	0.1 - 0.2 m	; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Field pH 7.8 (pH meter);
B1	0.2 - 0.38 m	; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.2 (pH meter);
B2	0.38 - 0.58 m	; Heavy clay; Weak grade of structure, 100-200 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 9 (pH meter);
B3	0.69 - 0.86 m	; Heavy clay; Weak grade of structure, 100-200 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.2 (pH meter);
C1	1.07 - 1.22 m	; Heavy clay; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.2 (pH meter);
C2	1.78 - 1.88 m	; Heavy clay; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.3 (pH meter);
D1	3.28 - 3.35 m	; Medium clay; Moderately moist; Very firm consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);

Morphological Notes

Observation Notes

WIDGELLI LAND SURFACE NIEMUR "CLAY" IN ASSOCIATION WITH GOGELDRIE PLEISTOCENE OR RECENT

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WHITTON YANCO

Site Notes

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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	7.4A	0.031C	18.1K	11.7	2.2	0.69	5E	37.7B	
0.04 - 0.1	7.6A	0.027C	17.8K	11.4	1.8	0.86	4.1E	36B	
0.1 - 0.2	7.8A	0.037C	19.8K	12.2	1.6	1.2		34.8B	
0.2 - 0.38	8.2A	0.054C							
0.38 - 0.58	9A	0.043C							
0.69 - 0.86	9.2A	0.071C							
1.07 - 1.22	9.2A	0.14C							
1.78 - 1.88	9.3A	0.54C							
3.28 - 3.35	9.3A	0.41C							

Depth	CaCO ₃	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m ³			%		
0 - 0.04				0.023D	0.168B				6D	20	13	57
0.04 - 0.1				0.018D	0.099B				5D	21	15	56
0.1 - 0.2	<0.01A								4D	19	9	60
0.2 - 0.38	0.03A											
0.38 - 0.58	0.12A								5D	18	10	61
0.69 - 0.86	0.38A											
1.07 - 1.22	0.46A								4D	17	11	63
1.78 - 1.88	0.37A											
3.28 - 3.35	1.8A								10D	18	9	59

[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
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
19A1	Carbonates - rapid titration
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