Project Name: CAN

Project Code: CAN Site ID: C4 Observation ID: 1

Agency Name: CSIRO Division of Soils (NSW)

**Site Information** 

Desc. By: D.C. van Dijk Locality: County Cooper Parish Dallas boundary 1702-1703

160M w homestead

**Date Desc.:** 01/10/53 **Elevation:** 150 metres

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

Northing/Long.: 146.216666666667 Runoff: Moderately rapid
Easting/Lat.: -34.6 Drainage: Moderately well drained

<u>Geology</u>

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: Gently undulating plains <9m Pattern Type: Alluvial plain

1-3%

Morph. Type: Flat Relief: No Data

Elem. Type: Plain Slope Category: Very gently sloped Slope: 0 % Aspect: 180 degrees

Surface Soil Condition (dry): Trampled, Firm

Erosion:

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/ACalcic Subnatric Red SodosolPrincipal Profile Form:N/A

ASC Confidence: Great Soil Group: Red-brown earth

All necessary analytical data are available.

<u>Site Disturbance:</u> Extensive clearing, for example poisoning, ringbarking

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

Tall Strata - Tree, , Isolated plants. \*Species includes - None Recorded

Surface Coarse Fragments: 2-10%, , , Quartz

**Profile Morphology** 

A11	0 - 0.04 m	Reddish brown (5YR4/4-Moist); ; Fine sandy medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Weak consistence; Field pH 6.6 (pH meter); Gradual change to -
A12	0.04 - 0.11 m	Yellowish red (5YR4/5-Moist); ; Fine sandy medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Field pH 6.9 (pH meter); Gradual change to -
A13	0.11 - 0.15 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Massive grade of structure; Moist; Firm consistence; Field pH 7.1 (pH meter); Sharp change to -
B11	0.15 - 0.24 m	Reddish brown (2.5YR4/4-Moist); ; Heavy clay (Light); Moderate grade of structure, 100-200 mm, Prismatic; Moist; Firm consistence; Field pH 7.8 (pH meter); Gradual change to -
B12	0.24 - 0.38 m	Reddish brown (2.5YR4/4-Moist); ; Heavy clay (Light); Weak grade of structure, 50-100 mm, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; , Gypseous, Medium (2 -6 mm), Crystals; Field pH 8.9 (pH meter); Sharp change to -
B21	0.38 - 0.61 m	Yellowish red (5YR4/6-Moist); ; Heavy clay (Light); Weak grade of structure, 50-100 mm, Angular blocky; Moist; Firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; , Gypseous, Coarse (6 - 20 mm), Crystals; Field pH 9.1 (pH meter); Gradual change to -
C11	0.81 - 0.97 m	Yellowish red (5YR5/8-Moist); ; Medium clay (Heavy); Moderately moist; Firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; , Gypseous, Medium (2 -6 mm), Crystals; Field pH 8.6 (pH meter); Sharp change to -
D1	1.52 - 1.68 m	Pale red (2.5YR6/2-Moist); ; Light clay (Heavy); Moderately moist; Very firm consistence; Field pH 9 (pH meter);

## **Morphological Notes**

## **Observation Notes**

WIDGELLI LAND SURFACE BEELBANGERA CLAY LOAM

**Site Notes** 

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## **Laboratory Test Results:**

Depth	рН	1:5 EC		hangeable Mg	Cations K	Na I	Exchangeable Acidity	CEC	E	ECEC	E	SP
m		dS/m	-	9		Cmol (+					q	<b>%</b>
0 - 0.04	6.6A	0.02C	5.9K	1.6	1.1	0.12	4.8E		1	13.5B		
0.04 - 0.11	6.9A	0.014C	4.7K	2.3	0.76	0.26	3.6E		1	11.6B		
0.11 - 0.15	7.1A	0.016C							2	26.2B		
0.15 - 0.24	7.8A	0.033C	11.9K	10.7	0.85	2.7						
0.24 - 0.38	8.9A	0.11C										
0.38 - 0.61	9.1A	0.19C										
0.81 - 0.97	8.6A	0.43C										
1.52 - 1.68	9A	0.15C										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	l Bulk	Pa	rticle \$	Size A	nalysis	
Depth		C	Р	Р	N	K	Density	Pa GV	rticle S	FS	nalysis Silt	
Depth m	CaCO3										-	
m		C	Р	P %	N %	K %	Density		CS	FS %	Silt	Clay
m 0 - 0.04		C	Р	<b>P</b> % 0.02D	<b>N</b> %	<b>K</b> %	Density		<b>cs</b> 26D	<b>FS</b> %	Silt 9	<b>Clay</b> 21
m 0 - 0.04 0.04 - 0.11		C	Р	P %	N % 0.15 0.08	K % 58B 32B	Density		26D 19D	<b>FS</b> % 42 43	9 18	21 18
m 0 - 0.04 0.04 - 0.11 0.11 - 0.15	%	с %	Р	<b>P</b> % 0.02D	<b>N</b> %	K % 58B 32B	Density		26D 19D 18D	FS % 42 43 41	9 18 19	21 18 19
m 0 - 0.04 0.04 - 0.11 0.11 - 0.15 0.15 - 0.24	% <0.01A	С %	Р	<b>P</b> % 0.02D	N % 0.15 0.08	K % 58B 32B	Density		26D 19D 18D 9D	FS % 42 43 41 21	9 18 19 7	21 18 19 59
m 0 - 0.04 0.04 - 0.11 0.11 - 0.15 0.15 - 0.24 0.24 - 0.38	% <0.01A 1.1A	С %	Р	<b>P</b> % 0.02D	N % 0.15 0.08	K % 58B 32B	Density		26D 19D 18D	FS % 42 43 41	9 18 19	21 18 19
m 0 - 0.04 0.04 - 0.11 0.11 - 0.15 0.15 - 0.24 0.24 - 0.38 0.38 - 0.61	% <0.01A 1.1A 5.9A	С %	Р	<b>P</b> % 0.02D	N % 0.15 0.08	K % 58B 32B	Density		26D 19D 18D 9D 7D	42 43 41 21 18	9 18 19 7 6	21 18 19 59 65
m 0 - 0.04 0.04 - 0.11 0.11 - 0.15 0.15 - 0.24 0.24 - 0.38 0.38 - 0.61 0.81 - 0.97	% <0.01A 1.1A 5.9A 4.9A	C %	Р	<b>P</b> % 0.02D	N % 0.15 0.08	K % 58B 32B	Density		26D 19D 18D 9D	FS % 42 43 41 21	9 18 19 7	21 18 19 59
m 0 - 0.04 0.04 - 0.11 0.11 - 0.15 0.15 - 0.24 0.24 - 0.38 0.38 - 0.61	% <0.01A 1.1A 5.9A	C %	Р	<b>P</b> % 0.02D	N % 0.15 0.08	K % 58B 32B	Density		26D 19D 18D 9D 7D	42 43 41 21 18	9 18 19 7 6	21 18 19 59 65

Depth COLE **Gravimetric/Volumetric Water Contents** K sat K unsat 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar g/g - m3/m3 15 Bar Sat. 5 Bar m mm/h mm/h

0 - 0.04 0.04 - 0.11

0.11 - 0.15 0.15 - 0.24 0.24 - 0.38 0.38 - 0.61

0.81 - 0.97 1.52 - 1.68

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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\_FS
P10\_PB\_Z
Total nitrogen (%) - Not recorded
Total element - P(%) - By boiling HCl
Clay (%) - Plummet balance
Plummet balance
Pine sand (%) - Plummet balance
Pine sand (%) - Plummet balance
Silt (%) - Plummet balance