Project Name: CAN

CP173 Project Code: CAN Site ID: Observation ID: 1

CSIRO Division of Soils (NSW) Agency Name:

Site Information

D. McGarry Locality: Calcot paddock 33 ~10KM north west Wee Waa Desc. Bv:

Elevation: Date Desc.: 20/11/79 205 metres Map Ref.: Sheet No.: 8737 1:100000 Rainfall: 640 149.339166666667 Runoff: Northing/Long.: Very slow

-30.217222222222 Imperfectly drained Easting/Lat.: Drainage:

Geology

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

Substrate Material: Geol. Ref.: No Data Slightly porous, Unconsolidated material

(unidentified)

Land Form

Rel/Slope Class: Level plain <9m <1% Pattern Type: Alluvial plain Morph. Type: Flat Relief: No Data Elem. Type: Slope Category: Plain Level No Data Slope: 0 % Aspect:

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Epicalcareous-Endohypersodic Self-Mulching Black Vertosol **Principal Profile Form:** Ug5.15

ASC Confidence: Great Soil Group: Grey clay

All necessary analytical data are available.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Tall Strata - Forb, 1.01-3m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.07 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay;

Strong grade of structure, <2 mm, Granular; Medium, (5 - 10) mm crack; Very weak consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 7.2 (pH meter); Sharp, Smooth change to

0.07 - 0.17 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay; 20-

50 mm, Angular blocky; Coarse, (10 - 20) mm crack; Firm consistence; Very few (0 - 2 %),

Calcareous, , Concretions; Field pH 7 (pH meter);

0.17 - 0.3 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay; 20-

50 mm, Angular blocky; Coarse, (10 - 20) mm crack; Firm consistence; Very few (0 - 2 %),

Calcareous, Concretions; Field pH 7.9 (pH meter);

0.3 - 0.4 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay; 20-

50 mm, Angular blocky; Medium, (5 - 10) mm crack; Firm consistence; Very few (0 - 2 %),

Calcareous, , Concretions; Field pH 8.3 (pH meter);

0.4 - 0.5 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay; 20-

50 mm, Angular blocky; Fine, (0 - 5) mm crack; Firm consistence; Very few (0 - 2 %),

Calcareous, , Concretions; Field pH 8.6 (pH meter);

Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay; 20-0.5 - 0.6 m

50 mm, Angular blocky; Fine, (0 - 5) mm crack; Firm consistence; Very few (0 - 2 %),

Calcareous, , Concretions; Field pH 8.7 (pH meter);

Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay; 20-0.6 - 0.7 m

50 mm, Angular blocky; Fine, (0 - 5) mm crack; Firm consistence; Very few (0 - 2 %),

Calcareous, , Concretions; Field pH 8.8 (pH meter);

0.7 - 0.8 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay; 20-

50 mm, Angular blocky; Fine, (0 - 5) mm crack; Firm consistence; Very few (0 - 2 %),

Calcareous, , Concretions; Field pH 8.8 (pH meter);

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> Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay; 20-50 mm, Angular blocky; Fine, (0-5) mm crack; Firm consistence; Very few (0-2%), 0.8 - 0.9 m

Calcareous, , Concretions; Field pH 8.8 (pH meter);

0.9 - 1 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay; 20-

50 mm, Angular blocky; Fine, (0 - 5) mm crack; Firm consistence; Very few (0 - 2 %),

Calcareous, , Concretions; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

LAND-PLANED:SUBSOIL STRUCTURE PARALLELEPIPEDAL:SEDIMENTS OF BASALTIC (MAJOR) AND SEDIMENTARY **ORIGIN**

Site Notes

WEE WAA

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Laboratory	v Test Results:

Depth	рН	1:5 EC		hangeable Cations		Exchangeable		CEC		ECEC		SP
m		dS/m	Ca M	lg	K	Na Cmol (Acidity +)/kg				9	ó
0 - 0.07	7.2A	0.39A	23.7K	14.9	1.3	1.3	7.7B	48.9J	l		2.	66
0.07 - 0.17	7A	0.25A	24.5K	15.2	1.2	1.3	7B	49.2J			2.	64
0.17 - 0.3	7.9A	0.17A	24.9K	16.6	0.9	2	5.1B	49.5J			4.	04
0.3 - 0.4	8.3A	0.14A	22.7K	16	0.69	3.2	7.7B	50.3J			6.	36
0.4 - 0.5	8.6A	0.16A										
0.5 - 0.6	8.7A	0.2A										
0.6 - 0.7	8.8A	0.25A	21K	16.3	0.68	5.6	5.8B	49.4J			11	.34
0.7 - 0.8	8.8A	0.28A										
0.8 - 0.9	8.8A	0.31A										
0.9 - 1	8.8A	0.31A	17.7K	16.9	0.77	6.6	6B	48J			13	.75
Depth	CaCO3	Organic	Avail. P	Total P	Total	Tot					Analysis	N
m	%	C %	mg/kg	%	N %	K %		GV	cs	FS %	Silt (ıay
0 - 0.07		3.68D	50.2A		0.10)5B			7D	8	19	62
0.07 - 0.17		1.14D	47.2A		0.09	95B						
0.17 - 0.3		0.87D	32.9A									
0.3 - 0.4	0.11A	0.69D	23.7A						7D	8	19	64
0.4 - 0.5			23.8A									
0.5 - 0.6			29.4A									
0.6 - 0.7		0.63D	36A									
0.7 - 0.8			41.7A									
0.8 - 0.9	0.004	0.500	47.1A							40	40	-00
0.9 - 1	0.29A	0.56D	48A						7D	10	18	62
Depth COLE Gravimetric/Volumetric Water Contents							K sa	ıt	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 - 0.07 0.07 - 0.17 0.17 - 0.3 0.3 - 0.4 0.4 - 0.5 0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1

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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_CEC CEC - meq per 100g of soil - Not recorded

15_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

15G_C_AL1 Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B

19A1 Carbonates - rapid titration
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

7_NR Total nitrogen (%) - Not recorded

9B_9C Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable

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