CAN **Project Name:** 

**Project Code: CP188** Observation ID: 1 CAN Site ID:

**CSIRO Division of Soils (NSW)** Agency Name:

**Site Information** 

Auscott ~17KM north west of Narrabri/Wee Waa Desc. By: D. McGarry Locality:

Road:paddock 14

Date Desc.: 10/06/80 Elevation: 205 metres Map Ref.: Sheet No.: 8737 1:100000 Rainfall: 640 Northing/Long.: 149.625833333333 Runoff: Very slow

Easting/Lat.: -30.144722222222 Drainage: Imperfectly drained

Geology

ExposureType: Conf. Sub. is Parent. Mat.: No Data 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: Relief: No Data Flat Elem. Type: Plain Slope Category: I evel Aspect: No Data Slope: 0 %

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

**Erosion:** 

**Soil Classification** 

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

**Great Soil Group: ASC Confidence:** 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 - 0.16 m Very dark grey (10YR3/1-Moist); Dark greyish brown (10YR4/2-Dry); ; Light medium clay; Strong

grade of structure, 2-5 mm, Granular; Loose consistence; Very few (0 - 2 %), Calcareous, ,

Concretions; Field pH 7.9 (pH meter); Clear, Smooth change to -

0.16 - 0.25 m Very dark grey (10YR3/1-Moist); Dark greyish brown (10YR4/2-Dry); ; Medium clay; Moderate

grade of structure, 10-20 mm, Angular blocky; Very weak consistence; Very few (0 - 2 %),

Calcareous, , Concretions; Field pH 7.2 (pH meter); Clear, Smooth change to -

0.25 - 0.3 m Very dark grey (10YR3/1-Moist); Dark greyish brown (10YR4/2-Dry); ; Medium clay; Weak grade of

structure, 10-20 mm, Angular blocky; Very coarse, (20 - 50) mm crack; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 7.3 (pH meter); Clear, Smooth change to -

Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, >500 mm, Angular blocky; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), 0.3 - 0.41 m

Concretions; Field pH 8.4 (pH meter); Diffuse, Tongued change to -

Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, >500 mm, Angular 0.41 - 0.5 m

blocky; Strong consistence; Very few (0 - 2 %), Calcareous, Very coarse (20 - 60 mm),

Concretions; Field pH 8.7 (pH meter);

0.5 - 0.6 m Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, >500 mm, Angular

blocky; Weak consistence; Very few (0 - 2 %), Calcareous, Very coarse (20 - 60 mm),

Concretions; Field pH 8.8 (pH meter);

0.6 - 0.7 m Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, >500 mm, Angular

blocky; Weak consistence; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;

Field pH 8.9 (pH meter);

0.7 - 0.8 m Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, >500 mm, Angular

blocky; Weak consistence; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;

Field pH 8.9 (pH meter);

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> Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, >500 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Field pH 8.9 (pH meter); 0.8 - 0.9 m

0.9 - 1 m Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, >500 mm, Angular

blocky; Weak consistence; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;

Field pH 8.9 (pH meter);

## **Morphological Notes**

## **Observation Notes**

LAND-PLANED:STRUC.>25CM PARALLELPIPEDAL SED'S OF BA.MAJOR+SED'Y ORIGIN:RED LAYER >40CM TYPICAL MAT. BELOW D CLAYS/NAMO

## **Site Notes**

NARRABRI

CAN

Project Name: Project Code: Agency Name: CAN Site ID: CP188 CSIRO Division of Soils (NSW) Observation ID: 1

Laborator	y Test Results:

Depth	рН	1:5 EC		nangeable			Exchangeable	CEC	E	CEC	E	SP
m		dS/m	Ca M	Иg	K	Na Cmol (+)	Acidity )/kg				9,	6
0 - 0.1	7.9A	0.22A	-	14.7	1.9	1.5	7.4B	50.9J			2	.95
0.1 - 0.2	7.2A	0.43A	27K	13.1	1.9	1.5	9.5B	53J			2	.83
0.2 - 0.3	7.3A	0.36A	26.2K	13.7	1.6	1.9	10.5B	53.9J			3	.53
0.3 - 0.4	8.4A	0.22A	25.7K	15.1	1.4	3.2	8.7B	54.1J			5	.91
0.4 - 0.5	8.7A	0.21A										
0.5 - 0.6	8.8A	0.24A										
0.6 - 0.7	8.9A	0.29A	22.1K	15.5	1.3	6.4	6.1B	51.4J			12	.45
0.7 - 0.8	8.9A	0.31A										
0.8 - 0.9	8.9A	0.34A										
0.9 - 1	8.9A	0.37A	19.4K	16.1	1.5	8.7	6.5B	52.2J			16	5.67
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Par	ticle S	Size	Analysis	
- <b></b>		C	Р	Р	N	K	Density		CS	FS	Silt (	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		•
0 - 0.1	0.12A	2.26D	45.3A						2D	12	19	62
0.1 - 0.2		1.08D	43A									
0.2 - 0.3		0.71D	27.2A									
0.3 - 0.4	0.38A	0.56D	13.6A						1D	12	20	65
0.4 - 0.5			14.9A									
0.5 - 0.6			18.5A									
0.6 - 0.7		0.49D	21.3A									
0.7 - 0.8			24.3A									
0.8 - 0.9			30A									
0.9 - 1	0.64A	0.42D	32.2A						1D	11	21	64
Depth	COLE		Gravi	imetric/Vo	lumetric W	Vater Cont	tents		K sa	t	K unsat	
•		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15 B	3ar				
m					g - m3/m3				mm/ł	n	mm/h	
					-							

<sup>0 - 0.1</sup> 0.1 - 0.2 0.2 - 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 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