

Project Name: CAN
Project Code: CAN **Site ID:** CP183 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	D. McGarry	Locality:	Kangaloon just west of Wee Waa turn off Narrabri/Wee Waa Road
Date Desc.:	20/11/79	Elevation:	205 metres
Map Ref.:	Sheet No. : 8737 1:100000	Rainfall:	640
Northing/Long.:	149.514722222222	Runoff:	Very slow
Easting/Lat.:	-30.199166666667	Drainage:	Imperfectly 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:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

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:	Ug5.14

ASC Confidence:

All necessary analytical data are available.

Great Soil Group: Grey clay

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

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

Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, , Quartz

Profile Morphology

0 - 0.1 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Light medium clay; Strong grade of structure, 2-5 mm, Granular; Medium, (5 - 10) mm crack; Loose consistence; 10-20%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Field pH 8 (pH meter); Clear, Smooth change to -
0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50 mm, Angular blocky; Coarse, (10 - 20) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8 (pH meter);
0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50 mm, Angular blocky; Coarse, (10 - 20) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.4 (pH meter);
0.3 - 0.4 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50 mm, Angular blocky; Medium, (5 - 10) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
0.4 - 0.5 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
0.5 - 0.6 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.8 (pH meter);

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0.6 - 0.7 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.9 (pH meter);
0.7 - 0.8 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9 (pH meter);
0.8 - 0.9 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.1 (pH meter);
0.9 - 1 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.1 (pH meter);

Morphological Notes

Observation Notes

LAND-PLANED:STRUCTURE >10CM PARALLELEPIPEDAL:SEDIMENTS OF BASALTIC (MAJOR) AND SEDIMENTARY ORIGIN

Site Notes

WEE WAA

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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_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
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 NaHCO ₃ extractable
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