Project Name: CAN
Project Code: CAN **Site ID:** C528 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J. Loveday	**Locality:**	Tubbo site 10B-AM
Date Desc.:	01/12/61	**Elevation:**	150 metres
Map Ref.:	Sheet No. : 8128 1:100000	**Rainfall:**	410
Northing/Long.:	146.090555555556	**Runoff:**	Very slow
Easting/Lat.:	-34.6877777777778	**Drainage:**	Well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	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:	<1 %	**Aspect:**	0 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Calcic Red Chromosol
ASC Confidence:
No analytical data are available but confidence is fair.

Mapping Unit: N/A
Principal Profile Form: Dr2.23
Great Soil Group: Red-brown earth

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation: Low Strata - Forb, <0.25m, Closed or dense. *Species includes - None recorded

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

Profile Morphology

0 - 0.15 m	Brown (10YR4/3-Moist); , 10YR33, 20-50% ; , 10YR64, 20-50% ; Sandy loam; Massive grade of structure, 2-5 mm, Subangular blocky; Firm consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Field pH 5.9 (pH meter);
0.15 - 0.2 m	Brown (10YR4/3-Moist); ; Sandy loam; Massive grade of structure, 2-5 mm, Subangular blocky; Firm consistence;
0.2 - 0.25 m	Strong brown (7.5YR5/6-Moist); ; Sandy clay loam; Massive grade of structure, 2-5 mm, Subangular blocky; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.6 (pH meter); Common, coarse (>5mm) roots;
0.25 - 0.41 m	Dark reddish brown (2.5YR3/4-Moist); , 2.5YR44, 20-50% ; , 20-50% ; Light medium clay; 5-10 mm, Angular blocky; 10-20 mm, Prismatic; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, , Concretions; Few, coarse (>5mm) roots;
0.41 - 0.61 m	Reddish brown (5YR4/4-Moist); , 10YR43; Light medium clay; Very few (0 - 2 %), Calcareous, , Concretions; Few, coarse (>5mm) roots;
0.61 - 0.91 m	Yellowish brown (10YR5/5-Moist); , 2.5Y44; Silty medium clay; Few (2 - 10 %), Calcareous, , Concretions;
0.91 - 1.07 m	Olive brown (2.5Y4/4-Moist); ; Sandy medium clay; Very few (0 - 2 %), Calcareous, , Concretions;
1.07 - 1.27 m	Reddish brown (5YR4/4-Moist); , 10YR55, 20-50% ; , 20-50% ; Coarse sand;

Morphological Notes

Observation Notes

CHARCOAL & BAKED SOIL:PROFILE DISTURBED B/W 15-38CM:LENSES OF SANDY & SILTY CLAY 107-127CM:SL. BL. STAINING 61-91CM

Site Notes

COLEAMBALLY

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.025	5.4A	0.18A	7.8K	1.2	0.53	0.06	6.4E		16B	
0.025 - 0.1	6A	0.06A	7.8K	1.6	0.51		4.7E		14.6B	
0.1 - 0.2										
0.2 - 0.3	8.6A	0.12A	9.4K	1	0.65	0.02			11.1B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.025		1.55F							36D	33	26	4
0.025 - 0.1		1F							33D	31	19	18
0.1 - 0.2												
0.2 - 0.3	0.82A								28D	27	19	25

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.025										
0.025 - 0.1										
0.1 - 0.2										
0.2 - 0.3										

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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
2_LOI	Loss on Ignition (%)
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
6_DC	Organic carbon (%) - Dry combustion
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