

Project Name: CAN
Project Code: CAN **Site ID:** C530 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|---------------------|
| Desc. By: | J. Loveday | Locality: | Tubbo site 11A-AM |
| Date Desc.: | 01/12/61 | Elevation: | 150 metres |
| Map Ref.: | Sheet No. : 8128 1:100000 | Rainfall: | 410 |
| Northing/Long.: | 146.087777777778 | Runoff: | Very slow |
| Easting/Lat.: | -34.666666666667 | Drainage: | Imperfectly drained |

Geology

| | | | |
|-----------------------|----------|------------------------------------|---|
| Exposure Type: | Soil pit | 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: | <1 % | Aspect: | 0 degrees |

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|-----------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Epicalcareous Epipedal Brown Vertosol | | Principal Profile Form: | Ug5.34 |
| ASC Confidence: | | Great Soil Group: | Grey clay |

All necessary analytical data are available.

Site Disturbance: Cultivation. Irrigated, past or present

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | |
|---------------|---|
| 0 - 0.1 m | Brown (7.5YR4/2-Dry); , 7.5YR32, 20-50% ; , 20-50% ; Medium heavy clay; 5-10 mm, Angular blocky; 50-100 mm, Subangular blocky; Medium, (5 - 10) mm crack; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 7.8 (pH meter); |
| 0.1 - 0.51 m | Brown (7.5YR4/3-Dry); ; Medium heavy clay; 100-200 mm, Angular blocky; 200-500 mm, Prismatic; Coarse, (10 - 20) mm crack; Very strong consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter); |
| 0.51 - 0.91 m | Brown (7.5YR4/4-Moist); ; Medium heavy clay; 100-200 mm, Angular blocky; 200-500 mm, Prismatic; Coarse, (10 - 20) mm crack; Very strong consistence; Few (2 - 10 %), Calcareous, , Concretions; |
| 0.91 - 1.14 m | Brown (7.5YR5/4-Moist); ; Medium heavy clay; 100-200 mm, Angular blocky; 200-500 mm, Prismatic; Medium, (5 - 10) mm crack; Very strong consistence; Few (2 - 10 %), Calcareous, , Concretions; |
| 1.14 - 1.24 m | Brown (10YR5/3-Moist); , 5Y52; Medium heavy clay; 100-200 mm, Angular blocky; 200-500 mm, Prismatic; Fine, (0 - 5) mm crack; Very strong consistence; Very few (0 - 2 %), Calcareous, , Concretions; |

Morphological Notes

Observation Notes

Site Notes

COLEAMBALLY

Observation ID: 1

Laboratory Test Results:

| Depth m | pH | 1:5 EC dS/m | Ca | Exchangeable Mg | Cations K | Na Cmol (+)/kg | Exchangeable Acidity | CEC | ECEC | ESP % |
|-------------|------|----------------|-------|--------------------|--------------|-------------------|-------------------------|-----|-------|----------|
| 0 - 0.025 | 6.9A | 0.12A | | | | | | | | |
| 0.025 - 0.1 | 7.9A | 0.18A | 22.9K | 9 | 0.88 | 0.09 | 1.9E | | 34.8B | |
| 0.1 - 0.2 | | | | | | | | | | |
| 0.2 - 0.3 | 8.5A | 0.18A | 21.6K | 10.8 | 0.75 | 0.41 | | | 33.6B | |

| Depth | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk | Particle | | Size | Analysis | |
|-------------|-------|---------|--------|-------|-------|-------|---------|----------|----|------|----------|------|
| m | % | C | P | P | N | K | Density | GV | CS | FS | Silt | Clay |
| | | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0 - 0.025 | | | | | | | | | 8D | 21 | 8 | 62 |
| 0.025 - 0.1 | 0.72A | 0.65F | | | | | | | 6D | 21 | 9 | 61 |
| 0.1 - 0.2 | | | | | | | | | | | | |
| 0.2 - 0.3 | 1.45A | | | | | | | | 6D | 19 | 9 | 62 |

[illegible]

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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 |