

Project Name: CAN
Project Code: CAN **Site ID:** CP118 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|---|
| Desc. By: | C.L. Watson | Locality: | ~6KM from Burren Junction on Wee Waa Road: Rossmore |
| Date Desc.: | 02/09/78 | Elevation: | 180 metres |
| Map Ref.: | Sheet No. : 8737 1:100000 | Rainfall: | 620 |
| Northing/Long.: | 149.05 | Runoff: | Very slow |
| Easting/Lat.: | -30.1 | 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

Erosion:

Soil Classification

| | | | |
|--|---|--------------------------------|-----------|
| Australian Soil Classification: | Episodic-Epicalcareous Epipedal Grey Vertosol | Mapping Unit: | N/A |
| ASC Confidence: | Analytical data are incomplete but reasonable confidence. | Principal Profile Form: | Ug5.25 |
| | | Great Soil Group: | Grey clay |

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

| | |
|---------------|--|
| 0 - 0.06 m | Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Field pH 7.7 (pH meter); |
| 0.06 - 0.25 m | Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Moderately plastic; Slightly sticky; Field pH 9 (pH meter); Diffuse change to - |
| 0.25 - 0.3 m | Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Very plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.2 (pH meter); |
| 0.3 - 0.4 m | Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Very plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.2 (pH meter); |
| 0.4 - 0.5 m | Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Very plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter); |
| 0.5 - 0.6 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 10YR41, 20-50% ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9 (pH meter); |
| 0.6 - 0.7 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 10YR41, 20-50% ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter); |
| 0.7 - 0.8 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 10YR41, 20-50% ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 8.8 (pH meter); |
| 0.8 - 0.9 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 10YR41, 20-50% ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter); |

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| | |
|-------------|--|
| 0.9 - 1 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 10YR41, 20-50% ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 8.8 (pH meter); |
| 1 - 1.1 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 10YR41, 20-50% ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 8.7 (pH meter); |
| 1.1 - 1.2 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 20-50% ; Heavy clay; 10-20 mm, Angular blocky; Strong consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter); |
| 1.2 - 1.3 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 20-50% ; Heavy clay; 10-20 mm, Angular blocky; Strong consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 8.8 (pH meter); |
| 1.3 - 1.4 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 20-50% ; Heavy clay; 10-20 mm, Angular blocky; Strong consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter); |
| 1.4 - 1.5 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 20-50% ; Heavy clay; 10-20 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.9 (pH meter); |
| 1.5 - 1.6 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 20-50% ; Heavy clay; 10-20 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter); |
| 1.6 - 1.7 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 20-50% ; Heavy clay; 10-20 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.6 (pH meter); |
| 1.7 - 1.8 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 20-50% ; Heavy clay; 10-20 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.6 (pH meter); |
| 1.8 - 1.9 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 20-50% ; Heavy clay; 10-20 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.6 (pH meter); |
| 1.9 - 2 m | Brown (10YR4/3-Moist); , 10YR53, 20-50% ; , 20-50% ; Heavy clay; 10-20 mm, Angular blocky; Strong consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter); |

Morphological Notes

Observation Notes

SLICKENSIDES INCREASING WITH DEPTH >50CM

Site Notes

BURREN JUNCT.

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| 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 | mm/h | mm/h |
| m | | g/g - m3/m3 | | | | | | | | |
| 0 - 0.06 | | | | | | | | 0.16B | | |

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0.06 - 0.25
0.25 - 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
1 - 1.1
1.1 - 1.2
1.2 - 1.3
1.3 - 1.4
1.4 - 1.5
1.5 - 1.6
1.6 - 1.7
1.7 - 1.8
1.8 - 1.9
1.9 - 2

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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 |
| 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 |
| P3B_GV_15 | 15 BAR Moisture g/g - Gravimetric using pressure plate |