

**Project Name:** BRW  
**Project Code:** BRW      **Site ID:** C29A      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

|                        |             |                   |                                     |
|------------------------|-------------|-------------------|-------------------------------------|
| <b>Desc. By:</b>       | B.E. Butler | <b>Locality:</b>  | Few chains south east of Cementary: |
| <b>Date Desc.:</b>     | 07/07/54    | <b>Elevation:</b> | No Data                             |
| <b>Map Ref.:</b>       |             | <b>Rainfall:</b>  | 0                                   |
| <b>Northing/Long.:</b> |             | <b>Runoff:</b>    | Moderately rapid                    |
| <b>Easting/Lat.:</b>   |             | <b>Drainage:</b>  | Well drained                        |

**Geology**

|                      |         |                                    |         |
|----------------------|---------|------------------------------------|---------|
| <b>ExposureType:</b> | No Data | <b>Conf. Sub. is Parent. Mat.:</b> | No Data |
| <b>Geol. Ref.:</b>   | No Data | <b>Substrate Material:</b>         | No Data |

**Land Form**

|                         |             |                        |         |
|-------------------------|-------------|------------------------|---------|
| <b>Rel/Slope Class:</b> | No Data     | <b>Pattern Type:</b>   | No Data |
| <b>Morph. Type:</b>     | Lower-slope | <b>Relief:</b>         | No Data |
| <b>Elem. Type:</b>      | Hillslope   | <b>Slope Category:</b> | No Data |
| <b>Slope:</b>           | %           | <b>Aspect:</b>         | No Data |

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

|  |  |                                |                 |
|--|--|--------------------------------|-----------------|
| <b>Australian Soil Classification:</b> |  | <b>Mapping Unit:</b>           | N/A             |
| N/A                                    |  | <b>Principal Profile Form:</b> | N/A             |
| <b>ASC Confidence:</b>                 |  | <b>Great Soil Group:</b>       | Red-brown earth |
| Confidence level not specified         |  |                                |                 |

**Site Disturbance:**

**Vegetation:**

Tall Strata - Tree, , Very sparse. \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

|   |               |   |
|---|---------------|---|
| A | 0 - 0.08 m    | Dark red (2.5YR3/6-Moist); ; Sandy loam; Moderate grade of structure, 20-50 mm, Platy; Moderately moist; Firm consistence;  |
|   | 0.13 - 0.2 m  | Dark red (2.5YR2/6-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, <2 mm, Subangular blocky; Weak consistence; Sharp change to -   |
|   | 0.3 - 0.38 m  | Dark red (2.5YR3/6-Moist); , 10R36; , 5YR68; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Very firm consistence; Very plastic; Subplastic; Very few (0 - 2 %), Calcareous, , Soft segregations; Gradual change to - |
|   | 0.51 - 0.61 m | Dark red (2.5YR3/6-Moist); , 10R36; , 5YR68; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Weak grade of structure, <2 mm, Angular blocky; Weak consistence; Very plastic; Subplastic; Common (10 - 20 %), Calcareous, , Soft segregations; Gradual change to -           |
|   | 0.91 - 1.07 m | Dark red (2.5YR3/6-Moist); , 10R36; , 10R54; Very firm consistence; Gradual change to -   |

**Morphological Notes**

**Observation Notes**

**Site Notes**

MIRROOL

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations |    |   | Exchangeable | CEC     | ECEC | ESP |
|-------|----|--------|----------------------|----|---|--------------|---------|------|-----|
| m     |    | dS/m   | Ca                   | Mg | K | Na           | Acidity |      |     |
|       |    |        |                      |    |   | Cmol (+)/kg  |         |      | %   |

| 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   |          |    | %    |          |      |

| 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    |

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Laboratory Analyses Completed for this profile