

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW131      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

|                        |                          |                   |                     |
|------------------------|--------------------------|-------------------|---------------------|
| <b>Desc. By:</b>       | Chen, XY                 | <b>Locality:</b>  |                     |
| <b>Date Desc.:</b>     | 15/07/93                 | <b>Elevation:</b> | 179 metres          |
| <b>Map Ref.:</b>       | Sheet No. : 8327 1:25000 | <b>Rainfall:</b>  | No Data             |
| <b>Northing/Long.:</b> | 6119575 AMG zone: 55     | <b>Runoff:</b>    | Very slow           |
| <b>Easting/Lat.:</b>   | 527300 Datum: AGD66      | <b>Drainage:</b>  | Imperfectly drained |

**Geology**

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

**Land Form**

|                         |         |                        |                |
|-------------------------|---------|------------------------|----------------|
| <b>Rel/Slope Class:</b> | No Data | <b>Pattern Type:</b>   | Alluvial plain |
| <b>Morph. Type:</b>     | Flat    | <b>Relief:</b>         | No Data        |
| <b>Elem. Type:</b>      | Plain   | <b>Slope Category:</b> | No Data        |
| <b>Slope:</b>           | 1 %     | <b>Aspect:</b>         | 225 degrees    |

**Surface Soil Condition (dry):** Hardsetting

**Erosion:**

**Soil Classification**

|  |                                |                                |                      |
|--|--------------------------------|--------------------------------|----------------------|
| <b>Australian Soil Classification:</b> | N/A                            | <b>Mapping Unit:</b>           | N/A                  |
| <b>ASC Confidence:</b>                 | Confidence level not specified | <b>Principal Profile Form:</b> | Dy2.22               |
|  |                                | <b>Great Soil Group:</b>       | Yellow podzolic soil |

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

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

|    |              |  |
|----|--------------|--|
| A1 | 0 - 0.1 m    | Brown (7.5YR4/2-Moist); ; Clay loam, sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Moderately sticky; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -   |
| A2 | 0.1 - 0.35 m | Brown (7.5YR4/3-Moist); Mottles, 2-10% , Faint; Fine sandy light medium clay; Weak grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Moderately sticky; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules, strong, segregations;Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear change to - |
| B  | 0.35 - 0.8 m | Yellowish brown (10YR5/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Lenticular; >500 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Very sticky; Few cutans, <10% of ped faces or walls coated, faint; Field pH 8 (Raupach); Few, fine (1-2mm) roots;   |

**Morphological Notes**

**Observation Notes**

Pit to 30cm, auger to 80cm.

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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