

**Project Name:** New Farm Forest  
**Project Code:** NFF      **Site ID:** MEA4      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

#### Site Information

|                        |                             |                   |                         |
|------------------------|-----------------------------|-------------------|-------------------------|
| <b>Desc. By:</b>       | I. Hollingsworth            | <b>Locality:</b>  |                         |
| <b>Date Desc.:</b>     | 18/02/97                    | <b>Elevation:</b> | 410 metres              |
| <b>Map Ref.:</b>       | Sheet No. : 6627-1 1:100000 | <b>Rainfall:</b>  | No Data                 |
| <b>Northing/Long.:</b> | 6105278 AMG zone: 54        | <b>Runoff:</b>    | Moderately rapid        |
| <b>Easting/Lat.:</b>   | 297615 Datum: AGD66         | <b>Drainage:</b>  | Moderately well drained |

#### Geology

|                      |              |                                    |                                                 |
|----------------------|--------------|------------------------------------|-------------------------------------------------|
| <b>ExposureType:</b> | Auger boring | <b>Conf. Sub. is Parent. Mat.:</b> | No Data                                         |
| <b>Geol. Ref.:</b>   | No Data      | <b>Substrate Material:</b>         | Auger boring, 1 m deep, Slightly porous, Schist |

#### Land Form

|                         |                              |                        |                 |
|-------------------------|------------------------------|------------------------|-----------------|
| <b>Rel/Slope Class:</b> | Rolling hills 90-300m 10-32% | <b>Pattern Type:</b>   | Hills           |
| <b>Morph. Type:</b>     | Lower-slope                  | <b>Relief:</b>         | 60 metres       |
| <b>Elem. Type:</b>      | Footslope                    | <b>Slope Category:</b> | Gently inclined |
| <b>Slope:</b>           | 8 %                          | <b>Aspect:</b>         | 80 degrees      |

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

#### Erosion:

#### Soil Classification

|                                                                                         |  |                                |     |
|-----------------------------------------------------------------------------------------|--|--------------------------------|-----|
| <b>Australian Soil Classification:</b>                                                  |  | <b>Mapping Unit:</b>           | N/A |
| Haplic Mesotrophic Brown Chromosol Thick Slightly gravelly Loamy Clayey Moderately deep |  | <b>Principal Profile Form:</b> | N/A |

|                                                          |  |                          |     |
|----------------------------------------------------------|--|--------------------------|-----|
| <b>ASC Confidence:</b>                                   |  | <b>Great Soil Group:</b> | N/A |
| No analytical data are available but confidence is fair. |  |                          |     |

**Site Disturbance:** Cultivation. Rainfed

#### Vegetation:

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

|    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A1 | 0 - 0.1 m   | Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loam; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -                                                                                                                                                                                          |
| A2 | 0.1 - 0.5 m | Light brownish grey (2.5Y6/2-Moist); White (2.5Y8/2-Dry); , 0-0% ; Fine sandy loam; Single grain grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -          |
| Bt | 0.5 - 0.7 m | Yellowish brown (10YR5/4-Moist); , 7.5YR56, 2-10% , 5-15mm, Distinct; Medium clay; Massive grade of structure; Rough-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Slightly sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Clear, Irregular change to -                                                                                     |
| BC | 0.7 - 1 m   | Brownish yellow (10YR6/6-Moist); , 10YR72, 10-20% , 5-15mm, Distinct; , 2.5YR36, 10-20% , 5-15mm, Distinct; Light clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Moderately plastic; Normal plasticity; Slightly sticky; 10-20%, medium gravelly, 6-20mm, angular tabular, dispersed, Schist, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; |

#### Morphological Notes

#### Observation Notes

Same profile as mea2, depth to B was greater in one hole, 3 observations in 3 growth plots of E. saligna

#### Site Notes

MEADOWS4, SOUTHERN MT LOFTY RANGES, Handisides property, footslope, logged as MEADOW4

Project Name: New Farm Forest

Project Code: NFF

Agency Name: CSIRO Division of Soils (SA)

Site ID: MEA4

Observation ID: 1

Laboratory Test Results:

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

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size | Analysis  |
|-------|-------|-----------|----------|---------|---------|---------|--------------|---------------|-----------|
| m     | %     | %         | mg/kg    | %       | %       | %       | Mg/m3        | GV CS FS      | Silt Clay |
|       |       |           |          |         |         |         |              | %             |           |

| 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    |

Project Name: New Farm Forest  
Project Code: NFF Site ID: MEA4 Observation ID: 1  
Agency Name: CSIRO Division of Soils (SA)

Laboratory Analyses Completed for this profile