

Project Name: New Farm Forest
Project Code: NFF **Site ID:** MOO1 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|-------------------------|
| Desc. By: | I. Hollingsworth | Locality: | |
| Date Desc.: | 05/03/97 | Elevation: | 50 metres |
| Map Ref.: | Sheet No. : 7029 1:100000 | Rainfall: | No Data |
| Northing/Long.: | 6184820 AMG zone: 54 | Runoff: | No runoff |
| Easting/Lat.: | 463900 Datum: AGD66 | Drainage: | Moderately well drained |

Geology

| | | | |
|----------------------|--------------|------------------------------------|--|
| ExposureType: | Auger boring | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | Auger boring, 1.8 m deep,Porous, Eolian sand |

Land Form

| | | | |
|-------------------------|-----------------------------|------------------------|-----------|
| Rel/Slope Class: | Undulating plains <9m 3-10% | Pattern Type: | Dunefield |
| Morph. Type: | Flat | Relief: | 5 metres |
| Elem. Type: | Swale | Slope Category: | Level |
| Slope: | 0 % | Aspect: | No Data |

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|-----|
| Australian Soil Classification: | Argic Hypercalcic Calcarosol Thick Non-gravelly Sandy Clayey Very deep | Mapping Unit: | N/A |
| | | Principal Profile Form: | N/A |

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

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|-----|---------------|---|
| O | 0 - 0.02 m | Organic Layer; , 0-0% ; Loamy sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; Sharp, Smooth change to - |
| A1 | 0.02 - 0.35 m | Dark reddish brown (5YR3/4-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; Field pH 7.5 (Raupach); Many, fine (1-2mm) roots; Gradual, Wavy change to - |
| B1 | 0.35 - 0.7 m | Yellowish red (5YR5/8-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Slightly plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Calcareous, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Common cutans, 10-50% of ped faces or walls coated, distinct; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (Raupach); Many, fine (1-2mm) roots; Gradual, Wavy change to - |
| B2 | 0.7 - 1.8 m | Yellowish red (5YR5/8-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Moderately plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Calcareous, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 10 (Raupach); Few, fine (1-2mm) roots; Gradual, Wavy change to - |
| B2k | 1.8 - 2 m | Yellowish red (5YR4/8-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Wet; Moderately plastic; Normal plasticity; Moderately sticky; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Calcareous, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 10 (Raupach); Few, fine (1-2mm) roots; |

Morphological Notes

Observation Notes

litter layer, photos show wind shear effect on top of dune.

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MOORES IRRIGATED WOODLOT, RIVERLAND, Photo surface: 77/16, 77/17, 77/18. E. grandis plots B & C.

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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