

Project Name: SOIL STRUCTURE & MANAGEMENT
Project Code: SSM **Site ID:** SSM204 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|-------------------------|
| Desc. By: | B. Murphy | Locality: | |
| Date Desc.: | 12/03/92 | Elevation: | 215 metres |
| Map Ref.: | Sheet No. : 8327 1:100000 | Rainfall: | No Data |
| Northing/Long.: | 6085400 AMG zone: 55 | Runoff: | Slow |
| Easting/Lat.: | 505900 Datum: AGD66 | Drainage: | Moderately well drained |

Geology

| | | | |
|----------------------|-----------------------|------------------------------------|---------|
| ExposureType: | Undisturbed soil core | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | No Data |

Land Form

| | | | |
|-------------------------|---------|------------------------|----------------|
| Rel/Slope Class: | No Data | Pattern Type: | Alluvial plain |
| Morph. Type: | Flat | Relief: | No Data |
| Elem. Type: | No Data | Slope Category: | No Data |
| Slope: | 1 % | Aspect: | 270 degrees |

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

| | | | |
|--|--------------------------------|--------------------------------|--------------|
| Australian Soil Classification: | N/A | Mapping Unit: | N/A |
| ASC Confidence: | Confidence level not specified | Principal Profile Form: | Gn2.23 |
| | | Great Soil Group: | Yellow earth |

Site Disturbance: Cultivation. Rainfed, Extensive clearing, for example poisoning, ringbarking,

Vegetation:

Surface Coarse Fragments:

Profile Morphology

| | | |
|-----|--------------|---|
| A11 | 0 - 0.15 m | Yellowish red (5YR5/6-Moist); ; Loam; Weak grade of structure, 10-20 mm, Subangular blocky; , Lenticular; Earthy fabric; Dry; Firm consistence; Non-plastic; Normal plasticity; Field pH 5 (Raupach); Many, very fine (0-1mm) roots; |
| B21 | 0.15 - 0.5 m | Strong brown (7.5YR5/6-Moist); Biological mixing, 5YR64, 2-10% , Faint; Sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Columnar; Earthy fabric; Dry; Firm consistence; Slightly plastic; Normal plasticity; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; |
| B22 | 0.5 - 0.7 m | Light yellowish brown (10YR6/4-Moist); ; Sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Columnar; Earthy fabric; Dry; Firm consistence; Slightly plastic; Normal plasticity; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; |
| B23 | 0.7 - 1 m | Yellowish brown (10YR5/4-Moist); Substrate influence, 5YR64, 2-10% , Faint; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; 50-100 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Slightly plastic; Normal plasticity; Many cutans, >50% of ped faces or walls coated, faint; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Veins, weak, segregations;Field pH 8.5 (Raupach); Few, very fine (0-1mm) roots; |

Morphological Notes

Observation Notes

Site Notes

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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 |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|--------|---------|
| m | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar | |
| | | | | | g/g - | m3/m3 | | | mm/h |

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Laboratory Analyses Completed for this profile