

Project Name: SOIL STRUCTURE & MANAGEMENT
Project Code: SSM **Site ID:** SSM210 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|--------------|
| Desc. By: | B. Murphy | Locality: | |
| Date Desc.: | 08/04/92 | Elevation: | 260 metres |
| Map Ref.: | Sheet No. : 8328 1:100000 | Rainfall: | No Data |
| Northing/Long.: | 6128700 AMG zone: 55 | Runoff: | Slow |
| Easting/Lat.: | 541700 Datum: AGD66 | Drainage: | Well drained |

Geology

| | | | |
|----------------------|--------------|------------------------------------|----------|
| ExposureType: | Auger boring | Conf. Sub. is Parent. Mat.: | Probable |
| Geol. Ref.: | No Data | Substrate Material: | No Data |

Land Form

| | | | |
|-------------------------|-----------|------------------------|-----------|
| Rel/Slope Class: | No Data | Pattern Type: | Low hills |
| Morph. Type: | Mid-slope | Relief: | No Data |
| Elem. Type: | Hillslope | Slope Category: | No Data |
| Slope: | 2 % | Aspect: | 0 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: | Gn2.12 |
| | | Great Soil Group: | Red earth |

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

| | | |
|-----|-------------|--|
| A11 | 0 - 0.1 m | Dark reddish brown (5YR3/4-Moist); Yellowish red (5YR5/6-Dry); ; Clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; 50-100 mm, Prismatic; Dry; Very weak consistence; Field pH 5.5 (Raupach); |
| B21 | 0.1 - 0.2 m | Yellowish red (5YR4/8-Moist); Yellowish red (5YR5/8-Dry); ; Silty clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Prismatic; Dry; Very weak consistence; Field pH 6 (Raupach); |
| B21 | 0.2 - 0.3 m | Yellowish red (5YR4/8-Moist); Yellowish red (5YR5/8-Dry); ; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Prismatic; Dry; Very weak consistence; Field pH 6 (Raupach); |
| B22 | 0.3 - 0.4 m | Yellowish red (5YR5/8-Moist); Yellowish red (5YR5/8-Dry); ; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Prismatic; Dry; Firm consistence; Field pH 6.5 (Raupach); |
| B23 | 0.4 - 0.5 m | Yellowish red (5YR4/8-Moist); ; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Prismatic; Dry; Firm consistence; Field pH 6.5 (Raupach); |
| B31 | 0.5 - 0.6 m | Reddish yellow (7.5YR6/8-Moist); ; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Prismatic; Dry; Very weak consistence; Field pH 7.5 (Raupach); |
| B32 | 0.6 - 0.7 m | Strong brown (7.5YR5/8-Moist); Substrate influence, 2.5YR46, 2-10% , Distinct; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Prismatic; Dry; Very weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 7.5 (Raupach); |
| B33 | 0.7 - 0.9 m | Reddish yellow (7.5YR6/8-Moist); Substrate influence, 2.5YR46, 2-10% , Distinct; Light medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Prismatic; Dry; Very weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 7.5 (Raupach); |

Morphological Notes

Observation Notes

Site Notes

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| Depth | COLE | Gravimetric/Volumetric Water Contents | | | | | | K sat | K unsat |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|-------|---------|
| | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | | |
| m | | g/g - m ³ /m ³ | | | | | | mm/h | mm/h |
| 0.00 | 0.00 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.05 | 0.05 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.10 | 0.10 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.15 | 0.15 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.20 | 0.20 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.25 | 0.25 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.30 | 0.30 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.35 | 0.35 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.40 | 0.40 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.45 | 0.45 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.50 | 0.50 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.55 | 0.55 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.60 | 0.60 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.65 | 0.65 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.70 | 0.70 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.75 | 0.75 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.80 | 0.80 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.85 | 0.85 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.90 | 0.90 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 0.95 | 0.95 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.00 | 1.00 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.05 | 1.05 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.10 | 1.10 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.15 | 1.15 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.20 | 1.20 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.25 | 1.25 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.30 | 1.30 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.35 | 1.35 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.40 | 1.40 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.45 | 1.45 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.50 | 1.50 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.55 | 1.55 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.60 | 1.60 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.65 | 1.65 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.70 | 1.70 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.75 | 1.75 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.80 | 1.80 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.85 | 1.85 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.90 | 1.90 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 1.95 | 1.95 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 2.00 | 2.00 | 87.9 | 87.9 | 87.9 | 87.9 | 8 | | | |

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Laboratory Analyses Completed for this profile