

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA39 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

| | | | |
|------------------------|--------------------------|-------------------|--------------|
| Desc. By: | P. Ryan | Locality: | |
| Date Desc.: | 02/09/87 | Elevation: | 280 metres |
| Map Ref.: | Sheet No. : 8823 1:25000 | Rainfall: | No Data |
| Northing/Long.: | 5877490 AMG zone: 55 | Runoff: | No Data |
| Easting/Lat.: | 733720 Datum: AGD66 | Drainage: | Well drained |

Geology

| | | | |
|----------------------|----------|------------------------------------|---------|
| ExposureType: | Soil pit | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | Dgwa | Substrate Material: | Sand |

Land Form

| | | | |
|-------------------------|-----------|------------------------|-------------|
| Rel/Slope Class: | No Data | Pattern Type: | No Data |
| Morph. Type: | Mid-slope | Relief: | 0 metres |
| Elem. Type: | Hillslope | Slope Category: | No Data |
| Slope: | 36 % | Aspect: | 180 degrees |

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

| | | | |
|--|--------------------------------|--------------------------------|-------------|
| Australian Soil Classification: | N/A | Mapping Unit: | N/A |
| ASC Confidence: | Confidence level not specified | Principal Profile Form: | Gn2.21 |
| | | Great Soil Group: | Brown earth |

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse Fragments: 20-50%, fine gravelly, 2-6mm, subangular, Sand; 20-50%, coarse gravelly, 20-60mm, subangular, Sand; No surface coarse fragments

Profile Morphology

| | | |
|----|--------------|---|
| A1 | 0 - 0.17 m | Dark greyish brown (10YR4/2-Moist); ; Clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules, strong, segregations;Field pH 4.5 (Raupach); Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Gradual, Irregular change to - |
| B1 | 0.17 - 0.4 m | Yellowish brown (10YR5/4-Moist); ; Coarse sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules, strong, segregations;Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Common, coarse (>5mm) roots; Diffuse, Irregular change to - |
| B2 | 0.4 - 0.8 m | Yellowish brown (10YR5/6-Moist); ; Coarse sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules, strong, segregations;Field pH 5.5 (Raupach); Common, medium (2-5mm) roots; Abrupt, Wavy change to - |

Morphological Notes

| | | |
|----|---------------------|--|
| A1 | Fine sand fraction. | Higher faunal activity (casts) & fine texture like YA37. |
| B2 | Dispersive. | |

Observation Notes

Below torfield, tor as substrate. As F or YA38, Fe nodules in profile. One contained charcoal.

Site Notes

DP81 - ridgeline.

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Laboratory Test Results:

| Depth m | pH | 1:5 EC dS/m | Exchangeable Cations | | | Na Cmol (+)/kg | Exchangeable Acidity | CEC | ECEC | ESP % |
|------------|----------------|----------------|----------------------|------|------|-------------------|-------------------------|-----|------|----------|
| | | | Ca | Mg | K | | | | | |
| 0 - 0.075 | 3.63I 4.65H | | 1.21F | 0.76 | 0.18 | 0.13 | 1.05G | | | |
| 0.3 - 0.38 | 3.89I 4.92H | | 0.14F | 0.19 | 0.12 | 0.07 | 1.07G | | | |
| 0.4 - 0.8 | 4.11I 5.53H | | 0.2F | 0.56 | 0.23 | 0.05 | 0.39G | | | |

| Depth m | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density Mg/m3 | Particle | | Size | Analysis | |
|------------|-------|--------------|-------------|------------|------------|------------|--------------------------|----------|-------|------|----------|------|
| | % | % | mg/kg | % | % | % | | GV | CS | FS | Silt | Clay |
| 0 - 0.075 | | 3.76A | | 30F | <0.01E | | | 13.3 | 57.1F | 22.8 | 16.6 | 3.5 |
| 0.3 - 0.38 | | 1.13A | | 21F | <0.01E | | | 21 | 53.7F | 21.2 | 14.3 | 10.8 |
| 0.4 - 0.8 | | 0.63A | | 19F | <0.01E | | | 23.1 | 53.3F | 20.8 | 15.1 | 10.8 |

[illegible]

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Laboratory Analyses Completed for this profile

| | |
|------------|---|
| 15D1_CA | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach |
| 15D1_K | Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach |
| 15D1_MG | Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach |
| 15D1_NA | Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach |
| 15G_C_AL2 | Exchangeable aluminium - meq per 100g of soil - Aluminium By KCl extraction and detremination By AAS |
| 4A_C_1 | pH of soil - pH of 1:1 soil/water suspension |
| 4C_C_1 | pH of 1:1 soil/1M potassium chloride suspension |
| 6A1 | Organic carbon - Walkley and Black |
| 7A1 | Total nitrogen - semimicro Kjeldahl, steam distillation |
| 9A_NR | Total element - P(%) - Not recorded |
| P10_GRAV | Gravel (%) |
| P10_HYD_C | Clay (%) - Hydrometer Method |
| P10_HYD_CS | Coarse Sand (%) - Hydrometer Method |
| P10_HYD_FS | Fine Sand (%) - Hydrometer Method |
| P10_HYD_Z | Silt (%) - Hydrometer Method |