

**Project Name:** EDEN BURNING STUDY AREA  
**Project Code:** 1000638 **Site ID:** EDB\_SA35 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	P. Ryan	<b>Locality:</b>	
<b>Date Desc.:</b>	01/09/87	<b>Elevation:</b>	390 metres
<b>Map Ref.:</b>	Sheet No. : 8823 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	5878550 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	733640 Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Sand

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	0 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	35 %	<b>Aspect:</b>	180 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Dy5.41
		<b>Great Soil Group:</b>	Yellow podzolic soil

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

**Vegetation:**

**Surface Coarse Fragments:** 10-20%, fine gravelly, 2-6mm, subangular, Sand; 10-20%, stony, 200-600mm, subangular, Sand;  
No surface coarse fragments

**Profile Morphology**

O1	0 - 0.04 m	Organic Layer; ; Medium sandy clay loam; Moist; Clear, Smooth change to -
A1	0.04 - 0.22 m	Very dark grey (10YR3/1-Moist); ; Sandy loam; Weak grade of structure, <2 mm, Granular; Earthy fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Sand, coarse fragments; 20-50%, cobbly, 60-200mm, subangular, dispersed, Sand, coarse fragments; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Gradual, Wavy change to -
A2c	0.22 - 0.44 m	Pale brown (10YR6/3-Moist); ; Medium sandy clay; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Sand, coarse fragments; 20-50%, cobbly, 60-200mm, subangular, dispersed, Sand, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Gradual, Wavy change to -
B1	0.44 - 0.64 m	Very pale brown (10YR7/4-Moist); ; Medium clay; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Sand, coarse fragments; 20-50%, cobbly, 60-200mm, subangular, dispersed, Sand, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Gradual, Wavy change to -
B21	0.64 - 0.84 m	Strong brown (7.5YR5/8-Moist); , 10-20% , Faint; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Sand, coarse fragments; 10-20%, cobbly, 60-200mm, subangular, dispersed, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Gradual, Wavy change to -
B22	0.84 - 0.94 m	Strong brown (7.5YR5/8-Moist); ; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Sand, coarse fragments; 10-20%, cobbly, 60-200mm, subangular, dispersed, Sand, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5 (Raupach);

**Morphological Notes**

B1 maybe insitu.

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B21      maube insitu.

**Observation Notes**

Colluvial dam on steep slope.      Site process also depositional.

**Site Notes**

DP40 - upper slope of large hill

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP %
			Ca	Mg	K	Na Cmol (+)/kg				
0.04 - 0.12	3.51I 4.5H		3.71F	1.99	0.64	0.76	1.07G			
0.34 - 0.42	3.69I 4.82H		0.35F	0.55	0.24	0.07	0.65G			
0.44 - 0.64	3.65I 5.08H		0.47F	0.94	0.35	0.1	1.24G			
0.84 - 0.94	3.66I 4.95H		0.69F	2.29	0.57	0.14	3.89G			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.04 - 0.12		10.7A		50F	<0.01E			24.1				
0.34 - 0.42		0.81A		15F	<0.01E			34.9				
0.44 - 0.64		0.75A		13F	<0.01E			37.4				
0.84 - 0.94		0.99A		27F	<0.01E			39.2				

[illegible]

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**Laboratory Analyses Completed for this profile**

15D1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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
2A1	Air-dry moisture content
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 (%)