

**Project Name:** EDEN BURNING STUDY AREA  
**Project Code:** 1000638 **Site ID:** EDB\_SA48 **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>	04/09/87	<b>Elevation:</b>	260 metres
<b>Map Ref.:</b>	Sheet No. : 8823 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	5877450 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	732700 Datum: AGD66	<b>Drainage:</b>	Well drained

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	0 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	13 %	<b>Aspect:</b>	135 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>	Gn.
		<b>Great Soil Group:</b>	Yellow earth

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

#### Vegetation:

**Surface Coarse Fragments:** 2-10%, fine gravelly, 2-6mm, subangular, Quartz

#### Profile Morphology

O1	0 - 0.03 m	Organic Layer; ; Medium sandy clay loam; Moderately moist; Clear, Wavy change to -
A1	0.03 - 0.13 m	Brown (10YR4/3-Moist); ; Medium sandy clay loam; Weak grade of structure, <2 mm, Granular; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Gradual, Wavy change to -
A3	0.13 - 0.23 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Gradual, Wavy change to -
B1	0.23 - 0.5 m	Yellowish brown (10YR5/6-Moist); ; Sandy 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; Common, coarse (>5mm) roots; Gradual, Smooth change to -
B2	0.5 - 0.73 m	Yellowish brown (10YR5/8-Moist); ; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; 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); Few, very fine (0-1mm) roots;

#### Morphological Notes

#### Observation Notes

Minimal profile development. Variegated colours - mixing indicated. Coarser texture into B2. Small amount of Fe-nodules.

#### Site Notes

DP100 - midslope below tor hills

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%

0.03 - 0.11	3.48I 4.51H		1.54F	1	0.24	0.1	1.15G			
0.33 - 0.41	3.93I 4.49H		0.16F	0.12	0.14	0.05	0.43G			
0.43 - 0.83	4.17I 5.12H		0.38F	0.95	0.41	0.11	0.15G			

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	
0.03 - 0.11		6.27A		38F	<0.01E			16.7 54.1F 25.5	17	3.5	
0.33 - 0.41		1.21A		20F	<0.01E			44.5 51F 22.4	15.1	11.6	
0.43 - 0.83		0.59A		18F	<0.01E			36.8 62.5F 13.1	12.4	12	

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	mm/h	mm/h
			g/g - m3/m3							

0.03 - 0.11  
 0.33 - 0.41  
 0.43 - 0.83

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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
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