

**Project Name:** EDEN BURNING STUDY AREA  
**Project Code:** 1000638 **Site ID:** EDB\_SA27 **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>	19/07/87	<b>Elevation:</b>	310 metres
<b>Map Ref.:</b>	Sheet No. : 8823 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	5877600 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	735370 Datum: AGD66	<b>Drainage:</b>	Well drained

#### Geology

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

#### 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>	Hillcrest	<b>Slope Category:</b>	No Data
<b>Slope:</b>	7 %	<b>Aspect:</b>	225 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>	Dg3.6
		<b>Great Soil Group:</b>	Yellow podzolic soil

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

#### Vegetation:

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

#### Profile Morphology

O1	0 - 0.02 m	Organic Layer; ; Loamy coarse sand; Moist; Clear, Wavy change to -
A1	0.02 - 0.08 m	Very dark grey (10YR3/1-Moist); ; Coarse sandy loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Clear, Wavy change to -
A2	0.08 - 0.17 m	Grey (2.5Y5/1-Moist); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 4.5 (Raupach); Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Gradual, Wavy change to -
B2	0.17 - 0.52 m	Very pale brown (10YR7/4-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm, Granular; Sandy (grains prominent) fabric; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 10-20%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Field pH 4.5 (Raupach); Common, medium (2-5mm) roots;
BC	0.52 - 0.67 m	Yellow (10YR7/6-Moist); ; Firm consistence; 20-50%, medium gravelly, 6-20mm, subangular, undisturbed, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Few, medium (2-5mm) roots;

#### Morphological Notes

A2	B2 horizon is dry & hydrophobic - ped size 5-10mm.	possibly dispersive.	Also a dominant
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#### Observation Notes

Just below crest. High surface charcoal levels.

#### Site Notes

DP67

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations			Exchangeable Acidity	CEC	ECEC	ESP %
				Mg	K	Na Cmol (+)/kg				
0.02 - 0.08	3.28I 4.21H		0.95F	0.44	0.23	0.15	3.08G			
0.08 - 0.17	3.17I 4.22H		0.42F	0.31	0.13	0.11	2.66G			
0.32 - 0.4	3.79I 4.69H		0.16F	0.28	0.15	0.13	2.39G			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.02 - 0.08		6.23A		22F	<0.01E			32.3				
0.08 - 0.17		3.85A		16F	<0.01E			29				
0.32 - 0.4		1.98A		13.8F	<0.01E			31				

[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 (%)