

**Project Name:** EDEN BURNING STUDY AREA  
**Project Code:** 1000638 **Site ID:** EDB\_SA57 **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>	09/09/87	<b>Elevation:</b>	300 metres
<b>Map Ref.:</b>	Sheet No. : 8823 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	5878270 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	734490 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>	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>	Lower-slope	<b>Relief:</b>	0 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	35 %	<b>Aspect:</b>	135 degrees

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

**Erosion:** Partial, Minor (sheet)

#### 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>	Uc4.24
		<b>Great Soil Group:</b>	Lithosol

#### Site Disturbance:

#### Vegetation:

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

#### Profile Morphology

O1	0 - 0.03 m	Organic Layer; ; Sandy loam; Moist; Clear, Smooth change to -
A1	0.03 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Medium sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 4 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Gradual, Wavy change to -
A2	0.15 - 0.23 m	Dark greyish brown (10YR4/2-Moist); ; Medium sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5 (Raupach); Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Abrupt, Wavy change to -
B2	0.23 - 0.53 m	Yellowish brown (10YR5/4-Moist); ; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 5 (Raupach); Common, medium (2-5mm) roots; Common, coarse (>5mm) roots;

#### Morphological Notes

A1 Dominant ped size also 10-20mm.

A2 Dominant ped size also 10-20mm.

#### Observation Notes

Shallow profile resting on rock.

#### Site Notes

DP94 - steep lower slope above dry crk

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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				
0.03 - 0.11	3.03I 3.86H		0.79F	1.25	0.37	0.15	1.33G			
0.15 - 0.23	3.71I 4.62H		0.33F	0.37	0.11	0.06	0.94G			
0.33 - 0.41	4.11I 4.7H		0.05F	0.21	0.12	0.06	1.22G			

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		9.39A		51F	<0.01E			22.1			
0.15 - 0.23		1.68A		28F	<0.01E			24.4			
0.33 - 0.41		1.5A		35F	<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
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 (%)