

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA37 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	01/09/87	Elevation:	370 metres
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5878060 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	734060 Datum: AGD66	Drainage:	Rapidly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Crest	Relief:	0 metres
Elem. Type:	Hillcrest	Slope Category:	No Data
Slope:	5 %	Aspect:	0 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:	N/A
		Great Soil Group:	Lithosol

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

Vegetation:

Surface Coarse Fragments: 20-50%, fine gravelly, 2-6mm, subangular, ; 20-50%, medium gravelly, 6-20mm, subangular, ; 20-50%, coarse gravelly, 20-60mm, subangular,

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ; Fine sandy clay loam; Moist; Clear, Wavy change to -
A1	0.02 - 0.1 m	Brown (10YR4/3-Moist); ; Clayey coarse sand; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Clear, Irregular change to -
B2	0.1 - 0.42 m	Pale brown (10YR6/3-Moist); ; Clayey coarse sand; 5-10 mm, Polyhedral; Earthy fabric; Moist; 20-50%, subangular, dispersed, coarse fragments; 20-50%, rounded tabular, dispersed, coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Abrupt, Irregular change to -
BC	0.42 - 0.52 m	Yellowish brown (10YR5/8-Moist); ; Massive grade of structure; 20-50%, medium gravelly, 6-20mm, subangular, undisturbed, coarse fragments; 20-50%, cobbly, 60-200mm, subangular, undisturbed, coarse fragments; Field pH 5.5 (Raupach); Few, medium (2-5mm) roots;

Morphological Notes

O1	Common casts in A1. A1 horizon has unusual fine texture (termitaria?).	Dominant
A1	Much coarser texture.	

Observation Notes

Very shallow soil. Minimal profile. Topsoil lithology possibly also colluvium.

Site Notes

DP56 - hillcrest

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Laboratory Test Results:

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

0.02 - 0.1	4.14I 4.95H	1.81F	1.01	0.28	0.2	0.2G
0.32 - 0.4	3.58I 4.49H	0.61F	0.83	0.25	0.22	2.52G

Depth m	CaCO3	Organic	Avail.	Total	Total	Total	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
	%	C %	P mg/kg	P %	N %	K %		GV	CS		Silt	Clay
0.02 - 0.1		3.22A		43F	<0.01E			26.2				
0.32 - 0.4		1.38A		31F	<0.01E			62.7				

[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 (%)