

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA34 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	01/09/87	Elevation:	340 metres
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5878520 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	734430 Datum: AGD66	Drainage:	Well 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:	Mid-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	18 %	Aspect:	45 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:	Gn2.21
		Great Soil Group:	Brown earth

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

Vegetation:

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, subangular, ; No surface coarse fragments

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ; Coarse sandy loam; Clear, Wavy change to -
A1	0.02 - 0.17 m	Brown (7.5YR4/4-Moist); ; Coarse sandy loam; Weak grade of structure, 5-10 mm, Polyhedral; <2 mm, Granular; Earthy fabric; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Gradual, Irregular change to -
B21	0.17 - 0.52 m	Strong brown (7.5YR5/8-Moist); ; Coarse sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; 20-50%, cobbly, 60-200mm, subangular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Gradual, Irregular change to -
B22	0.52 - 0.69 m	Reddish yellow (7.5YR6/8-Moist); ; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, reoriented, coarse fragments; 20-50%, cobbly, 60-200mm, subangular, reoriented, coarse fragments; Field pH 4.5 (Raupach); Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Abrupt, Smooth change to -
Cr	0.69 - 0.78 m	; 20-50%, medium gravelly, 6-20mm, subangular, undisturbed, coarse fragments; 20-50%, cobbly, 60-200mm, subangular, undisturbed, coarse fragments;

Morphological Notes

Observation Notes

Shallow soil. PM present as surface condition = water repellent. sheet. Sarub vegetation reflects this. Little profile development. Current surface

Site Notes

DP91

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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 - 0.1	4I 5.28H		0.66F	1.89	0.33	0.08	0.71G			
0.32 - 0.4	4.16I 5.44H		3.48F	1.36	0.45	0.13	0.27G			
0.52 - 0.69	3.8I 4.92H		0.52F	1.37	0.59	2.38	3.58G			

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			%		
0.02 - 0.1		2.03A		26F	<0.01E			26.7				
0.32 - 0.4		6.34A		52F	<0.01E			19.9				
0.52 - 0.69		1.35A		39F	<0.01E			44				

[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
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 (%)