

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA32 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	30/08/87	Elevation:	350 metres
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5879030 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	734340 Datum: AGD66	Drainage:	Imperfectly drained

Geology

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

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:	8 %	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:	Gn2.81
		Great Soil Group:	Yellow earth

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

Vegetation:

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

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ; Coarse sandy clay loam; Moderately moist; Clear, Wavy change to -
A1	0.02 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Medium sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Moist; Weak consistence; 20-50%, subangular, dispersed, Quartz, coarse fragments; 20-50%, rounded, dispersed, Quartz, coarse fragments; Field pH 5 (Raupach); Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Wavy change to -
A3	0.1 - 0.22 m	Weak red (2.5YR4/2-Moist); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Moist; Firm consistence; 20-50%, subangular, dispersed, Quartz, coarse fragments; 20-50%, rounded, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Irregular change to -
B1	0.22 - 0.37 m	Reddish brown (2.5YR5/4-Moist); ; Coarse sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Gradual, Irregular change to -
B21	0.37 - 0.68 m	Brownish yellow (10YR6/6-Moist); ; Medium sandy clay; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots;
B22	0.68 - 1.02 m	Light yellowish brown (10YR6/4-Moist); , 20-50% , Distinct; , 10-20% , Distinct; Massive grade of structure; Smooth-ped fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, undisturbed, Gravel, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 4.5 (Raupach);

Morphological Notes

A1	Sand grain size is smaller.
A3	Sand grain size increases.
B1	sand grains increase in quantity in B2 which is dispersive. Definite evidence for A1-B2 to be colluvial in origin.

Observation Notes

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 Site ID: EDB_SA32 Observation ID: 1
Agency Name: CSIRO Division of Soils (ACT)

Site Notes

DP16

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 Site ID: EDB_SA32 Observation ID: 1
Agency Name: CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0.02 - 0.1	3.62I 4.74H		0.46F	2.01	0.38	0.19	0.82G		
0.32 - 0.4	4.01I 5.02H		0.24F	0.57	0.2	0.07	0.95G		
0.37 - 0.68	3.98I 5.07H		0.13F	0.73	0.18	0.1	0.85G		
0.68 - 1.02	3.92I 5.01H		0.18F	3.64	0.37	0.6	1.11G		

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 - 0.1		7.21A		45F	<0.01E			22.4				
0.32 - 0.4		1.41A		23F	<0.01E			33.4				
0.37 - 0.68		1.12A		18F	<0.01E			34.7				
0.68 - 1.02		0.73A		23F	<0.01E			18.4				

[illegible]

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA32 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

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 (%)