Project Name: **EDEN BURNING STUDY AREA**
Project Code: **1000638** **Site ID:** **EDB_SA53** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: P. Ryan
Date Desc.: 08/09/87
Map Ref.: Sheet No. : 8823 1:25000
Northing/Long.: 5877100 AMG zone: 55
Easting/Lat.: 735430 Datum: AGD66
Locality:
Elevation: 230 metres
Rainfall: No Data
Runoff: No Data
Drainage: Rapidly drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Lower-slope
Elem. Type: Footslope
Slope: 25 %
Pattern Type: No Data
Relief: 0 metres
Slope Category: No Data
Aspect: 315 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Uc4.24
Great Soil Group: N/A

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

Vegetation:

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

Profile Morphology

O1	0 - 0.03 m	Organic Layer; ; Loam; Moist; Gradual, Smooth change to -
A11	0.03 - 0.28 m	; Loam; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 50-90%, fine gravelly, 2-6mm, angular, stratified, coarse fragments; 50-90%, coarse gravelly, 20-60mm, angular, stratified, coarse fragments; Field pH 3.5 (Raupach); Abundant, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Gradual, Smooth change to -
A12	0.28 - 0.41 m	Black (10YR2/1-Moist); ; Coarse sandy loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; Field pH 4 (Raupach); Common, fine (1-2mm) roots; Common, coarse (>5mm) roots; Clear, Wavy change to -
A2	0.41 - 0.51 m	Greyish brown (10YR5/2-Moist); ; Coarse sandy loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Field pH 4.5 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Clear, Smooth change to -
A2	0.51 - 0.6 m	Greyish brown (10YR5/2-Moist); ; Coarse sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual, Wavy change to -
B2	0.6 - 0.78 m	Brown (10YR5/3-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Field pH 5 (Raupach); Few, medium (2-5mm) roots; Clear, Smooth change to -
B3	0.78 - 0.98 m	Pale brown (10YR6/3-Moist); ; Massive grade of structure; Sandy (grains prominent) fabric; Weak consistence; 20-50%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

O1	Invalid moist Munsell given - 7.5yr 2/0 Coarse frag. distribution also dispersedThich A1 with rockline at 20-25cm over pale sandy colluvium to 1m. Gravel in rockline is mostly aplite. High OM.
A2	Dispersive.

Observation Notes

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Site Notes

DP36 - lower slope just above crk line

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0.03 - 0.11	3.26I 4.07H		2.3F	1.69	0.33	0.11	0.72G			
0.33 - 0.41	3.24I 4.08H		0.12F	0.16	0.14	0.06	2.07G			
0.51 - 0.6	3.5I 4.48H		0.03F	0.17	0.1	0.03	1.01G			
0.6 - 0.78	3.7I 4.58H		0.03F	0.3	0.12	0.04	1.11G			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.03 - 0.11		8.44A		66F	<0.01E			22.7				
0.33 - 0.41		1.76A		24F	<0.01E			20.4				
0.51 - 0.6		0.68A		16F	<0.01E			23.8				
0.6 - 0.78		0.97A		14F	<0.01E			20.7				

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3						mm/h	mm/h
0.03 - 0.11									
0.33 - 0.41									
0.51 - 0.6									
0.6 - 0.78									

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Laboratory Analyses Completed for this profile

15D1_CA	Exchangeable bases (Ca2+,Mg2+,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 (%)