Project Name: **EDEN BURNING STUDY AREA**
Project Code: **1000638** **Site ID:** **EDB_SA31** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: P. Ryan
Date Desc.: 21/07/87
Map Ref.: Sheet No. : 8823 1:25000
Northing/Long.: 5878970 AMG zone: 55
Easting/Lat.: 734060 Datum: AGD66
Locality:
Elevation: 390 metres
Rainfall: No Data
Runoff: No Data
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 8 %
Pattern Type: No Data
Relief: 0 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition (dry): Loose

Erosion: Stable, Minor (sheet)

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dy4.51
Great Soil Group: Brown earth

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

Vegetation:

Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, subangular, ; 10-20%, cobbly, 60-200mm, subangular, ; No surface coarse fragments

Profile Morphology

AB	0 - 0.08 m	Brown (7.5YR4/2-Moist); ; Coarse sandy loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Wet; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Clear, Smooth change to -
B21	0.08 - 0.45 m	Brown (7.5YR5/4-Moist); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Wet; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Gradual, Smooth change to -
B22	0.45 - 0.73 m	Strong brown (7.5YR5/6-Moist); ; Coarse sandy clay; Weak grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Wet; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5 (Raupach); Common, medium (2-5mm) roots; Clear, Smooth change to -
Cr	0.73 - 0.73 m	;

Morphological Notes

AB	Minimal A horizon due to sheet erosion.
B21	Dominant ped size also 10-20mm.
B22	Dominant ped size also 10-20mm.

Observation Notes

Site Notes

DP18 - convex crest.

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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 - 0.08	4.07I 5.15H		1.56F	0.82	0.29	0.16	0.79G			
0.3 - 0.38	3.86I 5.03H		0.13F	1.21	0.43	0.1	2.62G			
0.45 - 0.73	3.85I 5.06H		0.11F	1.36	0.45	0.27	2.42G			

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 - 0.08		4.31A		28F	<0.01E			38.5				
0.3 - 0.38		1.26A		24F	<0.01E			33.5				
0.45 - 0.73		0.93A		31F	<0.01E			32.7				

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 - 0.08									
0.3 - 0.38									
0.45 - 0.73									

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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
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 (%)