Project Name: **EDEN BURNING STUDY AREA**
Project Code: **1000638** **Site ID:** **EDB_SA47** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: P. Ryan
Date Desc.: 04/09/87
Map Ref.: Sheet No. : 8823 1:25000
Northing/Long.: 5877490 AMG zone: 55
Easting/Lat.: 732490 Datum: AGD66
Locality:
Elevation: 290 metres
Rainfall: No Data
Runoff: No Data
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 15 %
Pattern Type: No Data
Relief: 0 metres
Slope Category: No Data
Aspect: 135 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Red podzolic soil

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

Vegetation:

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

Profile Morphology

A1	0 - 0.03 m	Dark greyish brown (10YR4/2-Moist); ; Weak grade of structure, <2 mm, Granular; Earthy fabric; Moderately moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 4 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Abrupt, Smooth change to -
A2c	0.03 - 0.22 m	Light brownish grey (10YR6/2-Moist); , 10-20% , Faint; Medium sandy clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.5 (Raupach); Abundant, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Clear, Smooth change to -
B21	0.22 - 0.5 m	Light brown (7.5YR6/4-Moist); ; Medium sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, coarse (>5mm) roots; Gradual, Wavy change to -
B22	0.5 - 0.65 m	Yellowish red (5YR5/6-Moist); ; Medium heavy clay; 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 4.5 (Raupach); Abrupt, Irregular change to -

Morphological Notes

Observation Notes

Site process also transportational. Substrate is fine-porphyritic aplite.

Site Notes

DP98 - broad spur off hillcrest

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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	3.39I 4.36H		0.85F	0.5	0.15	0.07	1.02G			
0.3 - 0.28	3.85I 4.82H		0.39F	0.65	0.18	0.05	1.92G			
0.5 - 0.65	3.63I 5H		0.44F	6.45	0.2	0.55	1.16G			

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		4.13A		22F	<0.01E			11.9				
0.3 - 0.28		0.54A		20F	<0.01E			31.7				
0.5 - 0.65		0.83A		18F	<0.01E			30.4				

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 - 0.28										
0.5 - 0.65										

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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 (%)