

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA33 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	30/08/87	Elevation:	440 metres
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5878760 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	733790 Datum: AGD66	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Upper-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	28 %	Aspect:	90 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor (sheet)

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn2.34
		Great Soil Group:	Yellow podzolic soil

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

Vegetation:

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

Profile Morphology

O1	0 - 0.04 m	Organic Layer; ; Medium sandy clay loam; Moderately moist; Clear, Smooth change to -
A1	0.04 - 0.13 m	Brown (10YR4/3-Moist); ; Medium sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Moderately moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 2-10%, coarse gravelly, 20-60mm, subangular, dispersed, Quartz, coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Many, medium (2-5mm) roots; Gradual, Wavy change to -
A2c	0.13 - 0.3 m	Light yellowish brown (10YR6/4-Moist); ; Medium sandy clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Siltstone, coarse fragments; 2-10%, coarse gravelly, 20-60mm, subangular, dispersed, Siltstone, coarse fragments; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Siltstone, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Clear, Irregular change to -
B1	0.3 - 0.54 m	Brownish yellow (10YR6/6-Moist); ; Clay loam; Weak grade of structure, 20-50 mm, Polyhedral; Earthy fabric; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Siltstone, coarse fragments; 10-20%, cobbly, 60-200mm, subangular, dispersed, Siltstone, coarse fragments; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Siltstone, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Gradual, Irregular change to -
B21	0.54 - 0.79 m	Yellowish brown (10YR5/8-Moist); ; Clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Moist; Firm consistence; 20-50%, cobbly, 60-200mm, angular, dispersed, Siltstone, coarse fragments; Field pH 6 (Raupach); Common, coarse (>5mm) roots;
B22	0.79 - 1.24 m	Brownish yellow (10YR6/8-Moist); ; Massive grade of structure; Earthy fabric; Firm consistence; 20-50%, cobbly, 60-200mm, angular, dispersed, Siltstone, coarse fragments; Field pH 5 (Raupach); Common, coarse (>5mm) roots;

Morphological Notes

B1 Quartz grains diminish markedly in B2 horizon.

Observation Notes

Pendent of Devonian (Merimbula) PM down-slope of hillcrest. Large boulders throughout profile.
Sedimentary
rock outcrop.

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Site Notes

DP42 - near crest of major hill

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP %
			Ca	Mg	K	Na Cmol (+)/kg				
0.04 - 0.12	3.83I		1.65F	1.33	0.37	0.15	0.51G			
	4.82H									
0.13 - 0.3	3.65I		0.47F	0.51	0.2	0.1	0.7G			
	4.88H									
0.34 - 0.42	3.99I		0.56F	0.6	0.24	0.07	0.4G			
	5.18H									
0.79 - 1.24	3.63I		0.96F	3.57	0.38	0.18	4.55G			
	4.94H									

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			%		
0.04 - 0.12		5.55A		41F	<0.01E			20				
0.13 - 0.3		0.94A		26F	<0.01E			28.4				
0.34 - 0.42		1.26A		32F	<0.01E			34.5				
0.79 - 1.24		0.45A		95F	<0.01E			20.8				

[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 (%)