

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA49 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	07/09/87	Elevation:	250 metres
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5877480 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	732970 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:	Open depression (vale)	Relief:	0 metres
Elem. Type:	Drainage depression	Slope Category:	No Data
Slope:	27 %	Aspect:	180 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	N/A
		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, subrounded, ; 20-50%, cobbly, 60-200mm, subrounded, ; 20-50%, fine gravelly, 2-6mm, subangular,

Profile Morphology

A1	0 - 0.14 m	Very dark grey (10YR3/1-Moist); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 20-50%, cobbly, 60-200mm, subrounded, dispersed, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 5 (Raupach); Many, medium (2-5mm) roots; Many, fine (1-2mm) roots; Gradual, Smooth change to -
A3	0.14 - 0.26 m	Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 50-90%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 50-90%, cobbly, 60-200mm, subrounded, dispersed, coarse fragments; 50-90%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Abundant, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Clear, Wavy change to -
B1	0.26 - 0.4 m	Dark yellowish brown (10YR4/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 20-50%, cobbly, 60-200mm, subrounded, dispersed, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Gradual, Wavy change to -
B2	0.4 - 0.8 m	Yellowish brown (10YR5/4-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 20-50%, cobbly, 60-200mm, subrounded, dispersed, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Gradual, Wavy change to -
B3	0.8 - 1.1 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 20-50%, cobbly, 60-200mm, subrounded, dispersed, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Few, medium (2-5mm) roots;

Morphological Notes

Observation Notes

Site process also depositional. Surface soil has large amount of colluvial gravel, rest of profile has colluvial sand. Increasing sand % & coarseness down profile.

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Site Notes

DP78 - sloping drainage line

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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 - 0.08	4.2I 4.92H		2.12F	2.98	0.31	0.06	0.28G		
0.3 - 0.38	4.08I 5.29H		0.16F	0.41	0.13	0.07	0.23G		
0.4 - 0.8	4.26I 5.31H		0.07F	0.19	0.1	0.04	0.23G		

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		7.26A		68F	<0.01E			22.3				
0.3 - 0.38		0.71A		29F	<0.01E			15.4				
0.4 - 0.8		0.36A		24F	<0.01E			21.1				

[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
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 (%)