

Project Name: EDEN BURNING STUDY AREA
Project Code: 1000638 **Site ID:** EDB_SA36 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	01/09/87	Elevation:	310 metres
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5878050 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	733780 Datum: AGD66	Drainage:	Rapidly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Mid-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	14 %	Aspect:	270 degrees

Surface Soil Condition (dry): Loose

Erosion:

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 earth

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

Vegetation:

Surface Coarse Fragments: No surface coarse fragments; No surface coarse fragments; No surface coarse fragments

Profile Morphology

O2	0 - 0.02 m	Organic Layer; ; Wet; Abrupt, Smooth change to -
A2c	0.02 - 0.27 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sandy clay loam; Single grain grade of structure; Earthy fabric; Moist; Weak consistence; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Diffuse, Wavy change to -
B1	0.27 - 0.42 m	Yellowish brown (10YR5/4-Moist); ; Coarse sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Firm consistence; Few (2 - 10 %), Organic (humified), Coarse (6 - 20 mm), Soft segregations; Few (2 - 10 %), Organic (humified), Coarse (6 - 20 mm), Nodules; Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Many, coarse (>5mm) roots; Diffuse, Wavy change to -
B2	0.42 - 0.62 m	Yellowish brown (10YR5/6-Moist); ; Coarse sandy loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moist; Firm consistence; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Gradual, Irregular change to -
BC	0.62 - 0.92 m	; Coarse sandy clay; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; Few, fine (1-2mm) roots; Clear, Wavy change to -
C	0.92 - 0.92 m	; Very firm consistence;

Morphological Notes

O2	(no A1 horizon) possibly associated with root kinin.	Bottom of A2 horizon were organic-Fe nodules (hard), A2 to B2 colluvium.
B2	Also dominant ped size of 10-20mm.	

Observation Notes

Site process also depositional. profile development.	Unsure about GSG. Sand gets coarser with increasing depth.	Downslope from tors - ridgeline.	Minimal
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Site Notes

DP59

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations			Exchangeable Acidity	CEC	ECEC	ESP %
				Mg	K	Na Cmol (+)/kg				
0.02 - 0.1	3.41I 4.5H		1.09F	0.72	0.25	0.05	1.04G			
0.32 - 0.4	3.72I 4.98H		0.33F	0.82	0.3	0.09	1.87G			
0.62 - 0.92	3.92I 5.16H		0.26F	2.82	0.25	0.13	0.96G			

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			%		
0.02 - 0.1		4.68A		33F	<0.01E			26.8				
0.32 - 0.4		1.31A		19F	<0.01E			38.7				
0.62 - 0.92		0.64A		82F	<0.01E			43.6				

[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 (%)