

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0134 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	N.J. McKenzie	Locality:	
Date Desc.:	16/05/96	Elevation:	455 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6061774 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	613405 Datum: AGD66	Drainage:	Rapidly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	Os	Substrate Material:	Schist

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	28 %	Aspect:	45 degrees

Surface Soil Condition (dry): Firm

Erosion: Partial, Minor (sheet)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Acidic Lithic Bleached-Orthic Tenosol Thin Moderately gravelly Clay-loamy Clayey Shallow	Principal Profile Form:	Gn4.2

ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, angular, Quartz; 2-10%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

O1	0 - 0.01 m	Organic Layer; ;
A1	0.01 - 0.04 m	Dark reddish brown (5YR3/2-Moist); ; Medium sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Rough-ped fabric; Moderately moist; Loose consistence; 20-50%, medium gravelly, 6-20mm, angular platy, dispersed, Schist, coarse fragments; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Abrupt, Smooth change to -
A2	0.04 - 0.19 m	Light brown (7.5YR6/4-Moist); Pink (7.5YR8/4-Dry); ; Silty clay loam; Massive grade of structure; Rough-ped fabric; Dry; Firm consistence; 50-90%, medium gravelly, 6-20mm, angular platy, dispersed, Schist, coarse fragments; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -
B2	0.19 - 0.46 m	Reddish yellow (5YR6/6-Moist); ; Light clay; Massive grade of structure; Rough-ped fabric; Moderately moist; Weak consistence; 90-100%, coarse gravelly, 20-60mm, angular platy, stratified, Schist, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear, Smooth change to -

Morphological Notes

A1	Minimal accumulation of organic matter in very rocky material.
A2	Originally thought this was a C1 horizon. Quite a few roots and more pale than the layer below. Hydrophobic and very rocky.
B2	Redder material is forming in layers between large and abundant coarse fragments. Incipient B2 - originally named a C2. some roots penetrate.

Observation Notes

Sedimentary ridge, recently burnt. Large rocks not included in bulk sample. Minimal profile development. High silt content in sieved textures. Very warm aspect.

Site Notes

COMP 121H 312-1 93.5D,160M FROM RD/CK

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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 - 0.01									
0.01 - 0.04	3.41C		1.65H	0.6	0.55	0.08	4.79J 1.56K	9.22E	
0.04 - 0.19	3.8C		0.18H	0.17	0.26	0.05	3.34J 0K	4E	
0.19 - 0.46	3.97C		0.14H	0.23	0.12	0.05	2.38J 0K	2.92E	

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 - 0.01												
0.01 - 0.04		8.07B		311.4B	0.2A			54.3				
0.04 - 0.19		1.76B		289.2B	0.1A			37.63				
0.19 - 0.46		0.54B		285.6B	0.07A			43.7				

[illegible]

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_H	Exchangeable H - by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
2A1	Air-dry moisture content
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
6B2	Total organic carbon - high frequency induction furnace, volumetric
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
P10_GRAV	Gravel (%)