

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0020 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	N.J. McKenzie	Locality:	
Date Desc.:	18/12/95	Elevation:	1275 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6026237 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	620950 Datum: AGD66	Drainage:	Rapidly drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	Dga	Substrate Material:	Adamellite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	21 %	Aspect:	90 degrees

Surface Soil Condition (dry): Soft

Erosion: Stable, Not apparent (sheet)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Magnesian Red Kandosol		Principal Profile Form:	Gn4.11
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.09 m	Dark reddish brown (5YR2.5/2-Moist); ; Loam; Weak grade of structure, 5-10 mm, Granular; Earthy fabric; Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, angular platy, dispersed, Schist, coarse fragments; 20-50%, medium gravelly, 6-20mm, angular, dispersed, Coal, coarse fragments; Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Abrupt, Smooth change to -
A12	0.09 - 0.22 m	Reddish brown (5YR4/4-Moist); Biological mixing, 5YR31, 10-20% , Faint; Clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 10-20%, coarse gravelly, 20-60mm, angular platy, dispersed, Schist, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear, Smooth change to -
B1	0.22 - 0.4 m	Red (2.5YR4/6-Moist); ; Clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 10-20%, coarse gravelly, 20-60mm, angular platy, dispersed, Schist, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Gradual, Smooth change to -
B21	0.4 - 0.73 m	Red (2.5YR4/7-Moist); ; Clay loam; Weak grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 10-20%, coarse gravelly, 20-60mm, angular platy, dispersed, Schist, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Gradual, Smooth change to -
B22	0.73 - 1 m	Yellowish red (5YR5/6-Moist); ; Clay loam; Weak grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 20-50%, coarse gravelly, 20-60mm, angular platy, dispersed, Schist, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

A11	Abundant charcoal - surface may have been an ash bed - low pH.
B22	At 1.00 equipment refusal.

Observation Notes

Site Notes

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COMP 23H,5462-1,B 132,100M FR RD/CUJCN

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.09	3.54C		7.77H	1.55	1.56	0.08	10.85J		22.63E	
0.09 - 0.22	4.75C		5.75H	1	0.86	0.03	0.81K 0.84J		8.49E	
0.22 - 0.4	4.19C		2.19H	0.89	0.64	0.05	2.09J 0K		5.86E	
0.4 - 0.73	3.94C		0.03H	0.42	0.67	0.05	3.82J 0K		4.99E	
0.73 - 1	3.98C		0H	0.26	0.56	0.03	3.05J 0K		3.9E	

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 - 0.09		20.13B		506.2B	0.41A		0.41	37.69				
0.09 - 0.22		2.54B		208.3B	0.1A		1.21	34.02				
0.22 - 0.4		1.09B		201.7B	0.06A		1.34	52.31				
0.4 - 0.73		0.55B		175.5B	0.04A		1.26	40.54				
0.73 - 1		0.22B		148.3B	0.02A			36.57				

[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 (%)
P3A1	Bulk density - g/cm3