Project Name: BAGO-MARAGLE FOREST SOIL SURVEY

Project Code: BGM_FSS Site ID: 0076 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan Locality:

Date Desc.: 13/12/95 Elevation: 738 metres Map Ref.: Sheet No.: 8526 DGPS Rainfall: No Data Northing/Long.: 6022706 AMG zone: 55 Runoff: No Data 615614 Datum: AGD66 Well drained Easting/Lat.: Drainage:

Geology

 ExposureType:
 Soil pit
 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: Footslope Slope Category: No Data
Slope: 24 % Aspect: 225 degrees

Surface Soil Condition (dry): Firm

Erosion: Partial, Minor (sheet)

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHumose-Acidic Eutrophic Brown Kandosol Medium SlightlyPrincipal Profile Form:Gn2.21

gravelly Loamy Clayey Very deep

ASC Confidence: Great Soil Group: Brown earth

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: 10-20%, coarse gravelly, 20-60mm, subrounded tabular,

Profile Morphology

A11 0 - 0.14 m Very dark brown (10YR2/2-Moist); ; Coarse sandy loam; Weak grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Loose consistence; 2-10%, Coal, coarse fragments; 2-10%, Quartz, coarse fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Wavy change to -

A12 0.14 - 0.25 m Very dark brown (10YR2/2-Moist); ; Coarse sandy clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Very weak consistence; 2-10%, Quartz, coarse

fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few,

medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Wavy change to -

AB 0.25 - 0.3 m Very dark greyish brown (10YR3/2-Moist); Biological mixing, 10YR43, 10-20%, Faint; Coarse

sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 2-10%, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear, Irregular change to -

B1 0.3 - 0.49 m Brown (7.5YR4/3-Moist); Biological mixing, 10YR22, 2-10%, Faint; Clay loam, sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence;

Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Gradual, Smooth change to -

B21 0.49 - 0.75 m Brown (7.5YR4/4-Moist); Biological mixing, 10YR33, 2-10%, Distinct; Coarse sandy clay;

Massive grade of structure; Earthy fabric; Moist; Firm consistence; 0-2%, coarse fragments;

Field pH 5.5 (Raupach); Gradual, Smooth change to -

B22 0.75 - 1 m Strong brown (7.5YR4/6-Moist); ; Coarse sandy clay; Moderate grade of structure, 10-20 mm,

Angular blocky; Smooth-ped fabric; Moist; Weak consistence; 2-10%, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Few, very fine (0-

1mm) roots; Few, fine (1-2mm) roots; Gradual change to -

B23 1 - 1.54 m Yellowish brown (10YR5/6-Moist); Substrate influence, 10R48, 2-10%, Prominent; Substrate

influence, 10YR62, 0-2% , Faint; Coarse sandy clay loam; Earthy fabric; Moist; Weak

consistence; Field pH 4.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

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COMP 42H,10859-3,328D,110M FR CREEKS

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Cations Mg K		Exchangeable Na Acidity Cmol (+)/kg		CEC	ECEC	ESP
m		dS/m	Ca i							%
0 - 0.14	4.46C		7.67H	1.9	0.7	0.06	1.09J		11.52	≣
0.14 - 0.25	4.72C		8.6H	2.19	0.92	0.06	0.11K 1.05J 0K		12.81	≣
0.25 - 0.3	5C		7.31H	1.89	0.86	0.05	0.55J 0K		10.65	Ξ
0.3 - 0.49	5C		2.62H	1.14	0.86	0.02	0.27J 0K		4.9E	
0.49 - 0.75	4.93C		1.45H	1.06	0.83	0.01	0.2J 0K		3.54E	
0.75 - 1	4.85C		1.31H	1.67	1.08	0.02	0.12J 0K		4.2E	
1 - 1.54	4.24C		0.92H	1.66	1.21	0.03	1.18J 0K		4.99E	:
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	ıl Bulk Densitv	Par GV	rticle Size	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3	٠.	%	om only
0 - 0.14 0.14 - 0.25 0.25 - 0.3 0.3 - 0.49 0.49 - 0.75 0.75 - 1 1 - 1.54		7.76B 5.15B 2.93B 1.18B 0.72B 0.33B 0.27B		378.1E 291.6E 214.3E 156.2E 122.9E 107.2E 100B	3 0.2 3 0.1 3 0.0 3 0.0	2A 1A 6A 4A 2A	0.60 1.08 1.19 1.28 1.46	30.36 28.12 32.23 31.19 35.06 33.22 37.62		
Depth	COLE	Gravimetric/Volumetric Water Contents K sat K unsat Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar								
m		Sal.	U.UO DAI		0.5 Баг /g - m3/m		3 DAI 13	Dai	mm/h	mm/h

0 - 0.14 0.14 - 0.25 0.25 - 0.3 0.3 - 0.49 0.49 - 0.75 0.75 - 1 1 - 1.54

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Laboratory Analyses Completed for this profile

15_NR Sum of Ex. cations + Ex. acidity - Not recorded

Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts

15E1_AL 15E1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble

Exchangeable H - by compulsive exchange, no pretreatment for soluble salts 15E1_H

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_K 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

Air-dry moisture content 2A1

pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 4B2 6B2 Total organic carbon - high frequency induction furnace, volumetric

7A2

Total nitrogen - semimicro Kjeldahl , automated colour Total Phosphorus (ppm) - semimicro kjeldahl, automated colour 9A3

P10_GRAV Gravel (%)

P3A1 Bulk density - g/cm3