

**Project Name:** BAGO-MARAGLE FOREST SOIL SURVEY  
**Project Code:** BGM\_FSS **Site ID:** 0160 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

#### Site Information

<b>Desc. By:</b>	P. Ryan	<b>Locality:</b>	
<b>Date Desc.:</b>	09/04/97	<b>Elevation:</b>	607 metres
<b>Map Ref.:</b>	Sheet No. : 8526 DGPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6020804 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	615542 Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

#### Geology

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	Probable
<b>Geol. Ref.:</b>	Dga	<b>Substrate Material:</b>	Adamellite

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Pediment	<b>Slope Category:</b>	No Data
<b>Slope:</b>	5 %	<b>Aspect:</b>	90 degrees

**Surface Soil Condition (dry):** Hardsetting

**Erosion:** Partial, Minor (sheet) Partial, Minor (gully)

#### Soil Classification

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	All necessary analytical data are available.	<b>Principal Profile Form:</b>	N/A
		<b>Great Soil Group:</b>	Soloth

**Site Disturbance:** No effective disturbance. Natural

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.08 m	Black (10YR2/1-Moist); ; Fine sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Rough-ped fabric; Dry; Very weak consistence; Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear change to -
A21e	0.08 - 0.15 m	Light brownish grey (10YR6/2-Moist); White (10YR8/2-Dry); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, coarse fragments; Field pH 5.5 (Raupach); Gradual change to -
A22e	0.15 - 0.6 m	Light yellowish brown (10YR6/4-Moist); White (10YR8/2-Dry); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 - 6 mm), Nodules, strong, segregations; Field pH 6 (Raupach);
B1	0.6 - 0.9 m	; Very firm consistence;
B21	0.9 - 1.5 m	; Strong consistence;

#### Morphological Notes

A21e	Deep bleached A2 horizon. Dense coarse fragment of ferruginous aplite? Dispersive.
A22e	As for layer 3. Dispersive.

B1	Drill core could not pick up portions of this layer. Very firm consistence.
B21	Drill - core could not penetrate this layer.

#### Observation Notes

Proline auger had great difficulty in penetrating this dry, densipan A-B horizon.

#### Site Notes

EASTERN POWERLINE RD, 600M NE OF LEOS

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**Laboratory Test Results:**

[illegible][illegible][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 (%)