Project Name:	BAGO-MARAG	LE ESM	
Project Code:	BGM_ESM	Site ID:	1001
Agency Name:	CSIRO Division	of Soils (A	(CT)

Site Information

<u>Site In</u>	formation	<u>1</u>							
Desc. I		P. Rya		Locality:					
Date D		12/12/	-	Elevation:		1109 met	res		
Map Re			No. : 8526 DGPS	Rainfall:		No Data			
	0 0		45 AMG zone: 55	Runoff:		Slow			
Easting		60347	2 Datum: AGD66	Drainage:		Well drain	nea		
<u>Geolo</u>		.			_				
•	ureType:	Soil pi		Conf. Sub. is			Probab		
Geol. F	Ref.:	SGGF	4	Substrate Ma	aterial		Granod	liorite	
Land I	<u>Form</u>								
Rel/Slo	pe Class:	No Da	ata	Pattern Type	: :	No Data			
Morph.		Mid-sl	lope	Relief:		No Data			
Elem.	Гуре:	Hillslo	ppe	Slope Categ	ory:	No Data			
Slope:		13 %		Aspect:		135 degr	ees		
<u>Surfac</u>	ce Soil Co	nditio	on (dry): Firm						
Erosic	on:								
		ion							
<u>3011 C</u>	lassificati	on							
Austra	lian Soil Cl	lassific	ation:	I	Mappir	ng Unit:		N/A	
			ndosol Medium Non-gravelly	Clay-	Princip	al Profile	Form:	Gn2.21	
loamy (Clayey Very	/ deep							
ASC C	onfidence:	:		(Great S	Soil Group) :	Red earth	
All nec	essary anal	lytical c	data are available.						
Site D	isturbanc	e: No	effective disturbance other th	han grazing by	hoofe	d animals			
Vegeta	-			0 0 7					
		Frage	ments: No surface coarse f	raamonte					
		-	inents. No surface coarse i	laginents					
Profile	e Morphol	ogy							
01	0 - 0.01 m	n	Organic Layer; ;						
A1	0.01 - 0.1	9 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (pH meter); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Grade Smooth change to -						
B1	0.19 - 0.4	l3 m	Yellowish red (5YR4/6-Mois structure, 5-10 mm, Polyheo cutans, <10% of ped faces o 1mm) roots; Few, fine (1-2m Diffuse, Smooth change to -	dral; Smooth-p or walls coated nm) roots; Few	ed fabr I, faint;	ic; Modera Field pH 4	ately moi 1.5 (pH m	st; Weak consistence; Few neter); Common, very fine (0-	
B21	0.43 - 0.87 m Yellowish red (5YR4/6-Moist); Biological mixing, 0-2%, Faint; Light clay; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Granodiorite, coarse fragments; Field pH 4.5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse, Smooth change to -								
B22	0.87 - 1.1	1 m	Dark reddish brown (5YR3/2 Moderately moist; Weak cor Granodiorite, coarse fragme (1-2mm) roots;	nsistence; 2-10)%, fine	e gravelly,	2-6mm,		
B3	1.11 - 1.4	l6 m	Dark yellowish brown (10YR loam; Massive grade of struc consistence; 10-20%, fine g fragments; Field pH 4.5 (pH	cture; Sandy (ravelly, 2-6mm	grains	prominent)	fabric; I	Moderately moist; Weak	
С	1.46 - 2.0)1 m	Light brownish grey (2.5Y6/2 Massive grade of structure;	Sandy (grains					

Observation ID: 1

consistence; Field pH 6 (pH meter);

Morphological Notes

Granodiorite saprolite with rock at 2 m.

Observation Notes

Project Name:BAGO-MARAGLE ESMProject Code:BGM_ESMSite ID: 1001Agency Name:CSIRO Division of Soils (ACT)

Observation ID: 1

Site Notes

VI/1.15, ALPINE ASH CROWTH PLOT 2

Project Name:BAGO-MARAGLE ESMProject Code:BGM_ESMSite ID:100Agency Name:CSIRO Division of Soils (ACT) 1001

Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	n		(+)/kg			%
0.01 - 0.09	3.64C 4.58A		0.68H	0.53	0.58	0.18	7.91J 1.15K		11.04E	
0.21 - 0.31	3.73C 4.7A		0.2H	0.83	0.57	0.12	5.13J 0K		6.85E	
0.31 - 0.39	3.71C 4.63A		0.17H	0.57	0.54	0.09	6.1J 0K		7.46E	
0.61 - 0.71	3.77C 4.81A		0.13H	0.46	0.58	0.11	4.85J 0K		6.14E	
0.87 - 1.11										
1.21 - 1.31	3.89C 4.93A		0.08H	0.08	0.31	0.14	1.35J 0K		1.97E	
1.61 - 1.81	4.44C 5.09A		0.07H	0.03	0.26	0.1	0.11J 0.48K		1.04E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Densitv	Particle GV CS	Size FS	Analysis Silt (Clay
m	%	%	mg/kg	%	%	%	Mg/m3	0, 00	%	one	July
0.01 - 0.09		3.18B		239.3B	0.1A		0.96	10.15			
0.21 - 0.31		1.45B		217.1B	0.07A		1.07	7.7			
0.31 - 0.39		1.33B		201.3B	0.06A			11.61			
0.61 - 0.71		0.36B		137.3B	0.02A		1.15	2.29			
0.87 - 1.11							1.27				
1.21 - 1.31		0.14B		69.5B	0.01A			10.62			
1.61 - 1.81		0.07B		157.5B	0.01A			23.28			

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				g/	g - m3/m3	3			mm/h	mm/h

0.01 - 0.09 0.21 - 0.31 0.31 - 0.39 0.61 - 0.71 0.87 - 1.11 1.21 - 1.31 1.61 - 1.81

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Laboratory Analyses Completed for this profile

15_NR 15E1 AL	Sum of Ex. cations + Ex. acidity - Not recorded Exchangeable AI - 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
4A1	pH of 1:5 soil/water suspension
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

Observation ID: 1