Project Name:	BAGO-MARAG	GLE FORES	T SOIL SU	RVEY
Project Code:	BGM_FSS	Site ID:	0009	Observation ID:
Agency Name:	CSIRO Divisio	n of Soils (A	ACT)	

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Site Information

Desc. B Date De Map Re Northin Easting	By: esc.: ef.: ig/Long.:	19/12/ Sheet 60315	IcKenzie 195 No. : 8526 DGPS 546 AMG zone: 55 55 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:		1055 metres No Data No Data Well drained			
<u>Geoloc</u> Exposu Geol. R	ireType:	Soil p SGG	it		Conf. Sub. is Parent. Mat.: Probable Substrate Material: Schist				
Morph. Elem. T Slope:	pe Class: Type: ype:	Drain 21 %	depression (vale) age depression	Pattern Ty Relief: Slope Cate Aspect:	No Data				
<u>Surfac</u> Erosio	<u>e Soil Co</u> n·	nditic	on (dry): Firm						
	<u></u> assificati	on							
Australi Acidic M	ian Soil Cl	assific Red k	Kandosol Medium Slightly gra	velly		ing Unit: ipal Profile Form:	N/A N/A		
ASC C	onfidence				Great	Soil Group:	N/A		
	•	•	data are available. effective disturbance. Natura	N.					
Vegeta		<u>e.</u> NO	enective disturbance. Natura	1					
Surfac	e Coarse	Frag	ments:						
<u>Profile</u>	Morphol								
A11	0 - 0.16 n	n	Dark reddish brown (5YR2.5 Polyhedral; Rough-ped fabri subangular, dispersed, coar coated, faint; Field pH 7 (Ra medium (2-5mm) roots; Cle	ic; Moist; We se fragments upach); Mar	ak con ; Com y, very	sistence; 2-10%, co mon cutans, 10-50 fine (0-1mm) roots	parse gravelly, 20-60mm,		
A3	0.16 - 0.3	m	Dark reddish brown (5YR3/3-Moist); Biological mixing, 5YR31, 20-50%, Distinct; Clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -						
B21	0.3 - 0.6 r	n	faces or walls coated, faint;	n, Polyhedra subangular, c Field pH 6 (F	l; Earth lisperse laupac	y fabric; Moist; We ed, coarse fragmer h); Common, very			
B22	0.6 - 1.2 r	m	cutans, <10% of ped faces of	gravelly, 20 or walls coate	60mm, ed, fain	subangular, dispe t; Field pH 5.5 (Rai	rsed, coarse fragments; Few		
B23	1.2 - 1.6 r	m	Yellowish red (5YR4/6-Mois consistence; Few cutans, <1 Gradual, Smooth change to	10% of ped f		0	ure; Earthy fabric; Moist; Firm ; Field pH 5.5 (Raupach);		
B3	1.6 - 2.3 r	m	Brownish yellow (10YR6/6-M Massive grade of structure; faces or walls coated, faint;	Earthy fabric	; Moist	; Firm consistence;			
Morph	ological I	Notes							

Morphological NotesB23Fair bit of mica present.

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B3 Same as layer 5.

Observation Notes

Metasediment gravel but granodiorite occurs upslope. <u>Site Notes</u> COMP 15H 3044-1, BRG 63, 200M Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0009Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth	рН	1:5 EC		:hangeabl Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ga	Mg	ĸ	Cmol				%
0 - 0.16	4.71C		11.01H	1.75	1.12	0.15	1.56J 0K		15.58E	
0.16 - 0.3	4.88C		4.97H	0.92	1.12	0.06	0.92J 0K		7.99E	
0.3 - 0.6	4.85C		1.95H	0.62	0.77	0.04	0.39J 0K		3.78E	
0.6 - 1.2	4.56C		1.27H	0.75	0.6	0.01	0.78J 0K		3.41E	
1.2 - 1.6	4.49C		2H	0.82	0.44	0.03	0.47J 0K		3.76E	
1.6 - 2.3	4.25C		1.23H	1.18	0.34	0.02	0.71J 0K		3.47E	

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Part GV (icle CS	Size FS %	Analysi: Silt	s Clay
							Ū					
0 - 0.16		8.53B		749.8B	0.32A		0.76	41.75				
0.16 - 0.3		3.39B		599.2B	0.17A		1.03	43.2				
0.3 - 0.6		1.16B		220.7B	0.07A		1.19	32.4				
0.6 - 1.2		0.54B		212.3B	0.04A		1.63	31.11				
1.2 - 1.6		0.28B		150.7B	0.02A			43.36				
1.6 - 2.3		0.17B		74.5B	0.01A			40.98				
Depth	COLE		Gravi	metric/Volu	metric Wat	er Conter	nts		Ks	at	K unsa	t

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							mm/h

0 - 0.16 0.16 - 0.3 0.3 - 0.6 0.6 - 1.2 1.2 - 1.6 1.6 - 2.3

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Laboratory Analyses Completed for this profile

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