

Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC17 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	17/09/86	Elevation:	No Data
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5869475 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	736010 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	DGL	Substrate Material:	Adamellite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Mid-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	16 %	Aspect:	180 degrees

Surface Soil Condition (dry): Soft

Erosion: No sheet erosion (sheet) No rill erosion (rill) No gully erosion (gully)

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dy4.21
		Great Soil Group:	Yellow podzolic soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, subrounded, Quartz

Profile Morphology

O2	0 - 0.03 m	Organic Layer; ; Coarse sandy clay loam; Moist; Slightly plastic; Slightly sticky; Gradual, Smooth change to -
A1	0.03 - 0.18 m	Dark yellowish brown (10YR4/4-Moist); ; Coarse sandy loam; Weak grade of structure, 10-20 mm; Earthy fabric; Moist; Weak consistence; Non-plastic; Slightly sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 10-20%, cobbly, 60-200mm, angular, dispersed, Adamellite, coarse fragments; Field pH 5 (Raupach);
A2	0.18 - 0.33 m	Yellowish brown (10YR5/4-Moist); ; Coarse sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moist; Weak consistence; Slightly plastic; Slightly sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 10-20%, cobbly, 60-200mm, angular, dispersed, Adamellite, coarse fragments; Field pH 4.5 (Raupach); Abrupt, Smooth change to -
B1	0.33 - 0.52 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sandy clay; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moist; Weak consistence; Moderately plastic; Moderately sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 10-20%, cobbly, 60-200mm, angular, dispersed, Adamellite, coarse fragments; Field pH 5.5 (Raupach); Clear, Smooth change to -
B2	0.52 - 0.9 m	Yellowish brown (10YR5/6-Moist); ; Weak grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 10-20%, cobbly, 60-200mm, angular, dispersed, Adamellite, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach);
BC	0.9 - 1.03 m	Yellowish brown (10YR5/6-Moist); Mottles, 2-10% , Distinct; Massive grade of structure; Sandy (grains prominent) fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, undisturbed, Quartz, coarse fragments; 20-50%, cobbly, 60-200mm, angular, undisturbed, Adamellite, coarse fragments; Field pH 4.5 (Raupach);

Morphological Notes

Observation Notes

Broad midslope in NW corner. Gravel has Quartz Degmatite? Thick colluvial A2 hor. Not bleched.

Site Notes

Catch.2/1308

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations			Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
				Mg	K						
0.03 - 0.18	4.34I 4.68H		0.86F	0.67	0.46	0.19		0.65G			
0.18 - 0.33	4.39I 4.81H		0.49F	0.6	0.27	0.08		0.38G			
0.52 - 0.9	3.89I 4.2H		0.23F	0.61	0.41	0.2		3.66G			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.03 - 0.18		2.74A		24F	<0.01E			21.6				
0.18 - 0.33		1.13A		15F	<0.01E			19.9				
0.52 - 0.9		0.78A		23F	<0.01E			30.2				

[illegible]

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Laboratory Analyses Completed for this profile

15D1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_K	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_MG	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_NA	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15G_C_AL2	Exchangeable aluminium - meq per 100g of soil - Aluminium By KCl extraction and detremination By AAS
2A1	Air-dry moisture content
4A_C_1	pH of soil - pH of 1:1 soil/water suspension
4C_C_1	pH of 1:1 soil/1M potassium chloride suspension
6A1	Organic carbon - Walkley and Black
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)