

Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC14 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	16/09/86	Elevation:	No Data
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5868990 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	736190 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:	Lower-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	12 %	Aspect:	180 degrees

Surface Soil Condition (dry): Firm

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:	Gn3.01
		Great Soil Group:	Yellow podzolic soil

Site Disturbance:

Vegetation:

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

Profile Morphology

O1	0 - 0.03 m	Organic Layer; ; Loamy coarse sand; Moist; Non-plastic; Non-sticky; Abrupt, Wavy change to -
A1	0.03 - 0.06 m	Black (10YR2/1-Moist); ; Loamy coarse sand; Single grain grade of structure; Earthy fabric; Moist; Very weak consistence; Non-plastic; Non-sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 4.5 (Raupach); Clear, Smooth change to -
A2j	0.06 - 0.13 m	Pale brown (10YR6/3-Moist); ; Coarse sandy loam; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Moist; Very weak consistence; Slightly plastic; Slightly sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Gradual, Smooth change to -
B1	0.13 - 0.33 m	Light yellowish brown (10YR6/4-Moist); ; Clay loam, sandy; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; Moderately plastic; Slightly sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Clear, Smooth change to -
B21	0.33 - 0.53 m	Brownish yellow (10YR6/6-Moist); ; Coarse sandy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; Very plastic; Moderately sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4 (Raupach); Clear, Smooth change to -
B22	0.53 - 0.83 m	Yellowish brown (10YR5/8-Moist); ; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 4 (Raupach);
C	0.83 - 0.93 m	; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, undisturbed, Quartz, coarse fragments;

Morphological Notes

Observation Notes

Open canopy. Colluvial input to surface soil. B22 increase in clay probably formed in situ.

Site Notes

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Catch.2/20810

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP %
			Ca	Mg	K	Na Cmol (+)/kg				
0.03 - 0.06	3.3I		4F	1.85	0.88	2.08	1.78G			
	3.45H									
0.06 - 0.13	3.64I		0.76F	0.48	0.41	0.43	2.22G			
	3.96H									
0.13 - 0.33	3.98I		0.1F	0.46	0.38	0.09	1.54G			
	4.36H									
0.53 - 0.83	3.96I		0.48F	2.3	0.72	0.27	2.32G			
	4.53H									

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 - 0.06		12.74A		75F	<0.01E			29.1				
0.06 - 0.13		5.16A		24F	<0.01E			21				
0.13 - 0.33		1.21A		20F	<0.01E			21.7				
0.53 - 0.83		1.1A		27F	<0.01E			36.8				

[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 (%)