

Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC3 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	19/03/86	Elevation:	No Data
Map Ref.:	Sheet No. : 8823 1:25000	Rainfall:	No Data
Northing/Long.:	5865975 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	732800 Datum: AGD66	Drainage:	Moderately 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:	Upper-slope	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	8 %	Aspect:	90 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:	Dy5.81
		Great Soil Group:	Yellow podzolic soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A2	0 - 0.1 m	Greyish brown (10YR5/2-Moist); Pale red (2.5YR7/2-Dry); ; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Dry; Loose consistence; Slightly plastic; Non-sticky; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Clear, Smooth change to -
B1	0.1 - 0.21 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/4-Dry); Mottles, 2-10% , Distinct; Coarse sandy clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Weak consistence; Moderately plastic; Slightly sticky; 10-20%, medium gravelly, 6-20mm, subrounded, dispersed, Quartz, coarse fragments; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Adamellite, coarse fragments; Field pH 5.5 (Raupach); Gradual, Smooth change to -
B2	0.21 - 0.44 m	Yellowish brown (10YR5/8-Moist); ; Coarse sandy clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Firm consistence; Moderately plastic; Slightly sticky; 10-20%, medium gravelly, 6-20mm, subrounded, dispersed, Quartz, coarse fragments; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Adamellite, coarse fragments; Field pH 5.5 (Raupach); Gradual, Smooth change to -
B22	0.44 - 0.62 m	Strong brown (7.5YR5/6-Moist); ; Coarse sandy clay; Massive grade of structure; Moderately moist; Very firm consistence; Very plastic; Moderately sticky; 10-20%, medium gravelly, 6-20mm, subrounded, dispersed, Quartz, coarse fragments; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Adamellite, coarse fragments; Field pH 4.5 (Raupach); Clear, Smooth change to -
B3	0.62 - 0.65 m	Yellowish brown (10YR5/4-Moist); Mottles, 10-20% , Distinct; Mottles, 2-10% , Faint; Coarse sandy clay; Massive grade of structure; Moderately moist; Firm consistence; Very plastic; Moderately sticky; 20-50%, medium gravelly, 6-20mm, subrounded, dispersed, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Adamellite, coarse fragments; Field pH 4.5 (Raupach);

Morphological Notes

Observation Notes

NW watershed. Gentle ridge.

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.14	3.53I 4.52H		0.96F	0.57	0.16	0.18	0.72G			
0.14 - 0.21	3.89I 4.48H		0.41F	0.59	0.34	0.87	1.31G			
0.21 - 0.44	3.89I 4.39H		0.37F	1.11	0.46	1.32	2.37G			
0.44 - 0.62	3.88I 4.59H		0.34F	1.54	0.48	0.45	3.3G			
0.62 - 0.75	3.83I 4.48H		0.28F	1.39	0.39	1.1	3.28G			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS %	Silt Clay
0 - 0.14		2.12A		19F	0.06E			9.1	
0.14 - 0.21		1.15A		16F	0.02E			15.3	
0.21 - 0.44		1.56A		21F	0.04E			19.4	
0.44 - 0.62		0.69A		28F	0.02E			31.4	
0.62 - 0.75		0.29A		24F	0.01E			13.8	

[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 (%)