Project Name: YAMBULLA RESEARCH CATCHMENTS

Project Code: 1000196 Site ID: YAM\_RC22 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

**Site Information** 

Desc. By: P. Ryan Locality:

 Date Desc.:
 08/10/86
 Elevation:
 No Data

 Map Ref.:
 Sheet No.: 8823
 1:25000
 Rainfall:
 No Data

 Northing/Long.:
 5868795 AMG zone: 55
 Runoff:
 No Data

Easting/Lat.: 736100 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 DataPattern Type:No DataMorph. Type:Mid-slopeRelief:0 metresElem. Type:HillslopeSlope Category:No DataSlope:17 %Aspect:0 degrees

Surface Soil Condition (dry): Soft

Erosion: Stable, Minor (sheet) No rill erosion (rill) No gully

erosion (gully)

**Soil Classification** 

 Australian Soil Classification:
 Mapping Unit:
 N/A

 N/A
 Principal Profile Form:
 Gn2.21

 ASC Confidence:
 Great Soil Group:
 Yellow earth

Confidence level not specified

Site Disturbance: Vegetation:

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

**Profile Morphology** 

O1 0 - 0.02 m Organic Layer; ; Loamy coarse sand; Moist; Non-plastic; Non-sticky; Sharp, Smooth change to O2 0.02 - 0.06 m Organic Layer; ; Coarse sandy loam; Moist; Slightly plastic; Slightly sticky; Sharp, Smooth

change to -

A1 0.06 - 0.18 m Yellowish brown (10YR5/4-Moist); ; Coarse sandy clay; Single grain grade of structure; Earthy

fabric; Moist; Very weak consistence; Very plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Gradual,

Irregular change to -

B21 0.18 - 0.48 m Yellow (10YR7/6-Moist); ; Coarse sandy clay loam; Weak grade of structure, 5-10 mm,

Polyhedral; Earthy fabric; Moist; Weak consistence; Moderately plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 2-10%, coarse gravelly, 20-60mm, subangular, dispersed, Adamellite, coarse fragments; Field pH 5.5

(Raupach); Clear, Irregular change to -

B22 0.48 - 0.72 m Brownish yellow (10YR6/6-Moist); ; Massive grade of structure; Sandy (grains prominent) fabric;

Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subangular, dispersed, Adamellite, coarse

fragments; Field pH 5.5 (Raupach);

C 0.72 - 0.83 m Yellow (10YR7/6-Moist); Mottles, 2-10% , Distinct; Moderate grade of structure, 10-20 mm,

Angular blocky; Smooth-ped fabric; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, undisturbed, Quartz, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subangular, undisturbed, Adamellite, coarse fragments; Common cutans, 10-50% of ped faces

or walls coated, distinct; Field pH 5.5 (Raupach);

**Morphological Notes** 

A1 Dispersive clay

## **Observation Notes**

Pit below log-dam. Top 40cm probably colluvial with top 15cm being the most recent addition. Clay-rich B22 discontinuous. Planar voids are coated with clay and roots in B22 and C1 hors.

## **Site Notes**

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## **Laboratory Test Results:**

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Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		_		Cmol (+)/kg				%
0.02 - 0.6	2.8I 2.67H		8.97F	6.82	1.74	6.19	2.46G			
0.06 - 0.18	4.22I 4.26H		0.65F	0.69	0.39	1.05	0.92G			
0.18 - 0.48	4.16l 4.42H		0.45F	1.59	0.34	0.94	0.61G			
0.48 - 0.72	4.26l 4.67H		0.12F	3.89	0.38	0.48	0.29G			
0.72 - 0.83	4.14l 4.36H		0.14F	4.03	0.42	0.96	0.46G			
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K			ticle Size	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0.02 - 0.6 0.06 - 0.18		53.9A 0.21A		125F 23F	<0.0 <0.0	)1E		100 14.8		
0.18 - 0.48 0.48 - 0.72 0.72 - 0.83		0.71A 0.27A 0.49A		15F 13F 20F	<0.0 <0.0 <0.0	)1E		13.5 3.2 11		
0.72 - 0.00		0.43/		201	νο.	) I L				
Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar						K sat	K unsat
m		Jal.	0.03 Bal		/g - m3/m		3 Dai 13	Dai	mm/h	mm/h

0.02 - 0.6 0.06 - 0.18 0.18 - 0.48 0.48 - 0.72 0.72 - 0.83

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## **Laboratory Analyses Completed for this profile**

15D1\_CA Exchangeable bases (Ca2+,Mg2+,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 (%)