Project Name: YAMBULLA RESEARCH CATCHMENTS
Project Code: 1000196 **Site ID:** YAM_RC11 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan
Date Desc.: 15/09/86
Map Ref.: Sheet No. : 8823 1:25000
Northing/Long.: 5868985 AMG zone: 55
Easting/Lat.: 736460 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Poorly drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 14 %
Pattern Type: No Data
Relief: 0 metres
Slope Category: No Data
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
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Um5.51
Great Soil Group: Wiesenboden

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, subrounded, Quartz

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ; Clay loam (Sapric); Wet; Moderately plastic; Slightly sticky;
A1	0.02 - 0.22 m	Black (10YR2/1-Moist); ; Clay loam, sandy; Weak grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Wet; Moderately plastic; Slightly sticky; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Sharp, Smooth change to -
A1	0.22 - 0.36 m	Very dark grey (10YR3/1-Moist); ; Coarse sand; Weak grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Wet; Non-plastic; Non-sticky; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 5 (Raupach); Clear, Smooth change to -
C1	0.36 - 0.57 m	Greyish brown (10YR5/2-Moist); ; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Wet; Non-plastic; Slightly sticky; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 5 (Raupach);
C2	0.57 - 0.82 m	Light grey (10YR7/1-Moist); Mottles, 10-20% , Distinct; Massive grade of structure; Sandy (grains prominent) fabric; 2-10%, coarse gravelly, 20-60mm, subrounded, undisturbed, Quartz, coarse fragments; Field pH 5.5 (Raupach);

Morphological Notes

Observation Notes

A thick organic-rich A hor over loose dispersive C hor. No B hor watertable above C2 hor which is in-situ PM. A horshave colluvial clay and fine sand. Heath site.

Site Notes

Catch.2/20813

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0.02 - 0.22	3.63I 3.96H		0.24F	0.74	0.21	0.38	1.25G			
0.22 - 0.36	3.65I 4.06H		0.51F	1.36	0.27	0.24	1.33G			
0.36 - 0.57	3.88I 3.96H		0.06F	0.31	0.16	0.19	0.43G			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.02 - 0.22		3.15A		29F	<0.01E			0.7				
0.22 - 0.36		4.63A		38F	<0.01E			0.4				
0.36 - 0.57		0.66A		14F	<0.01E			31.9				

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	mm/h
0.02 - 0.22									
0.22 - 0.36									
0.36 - 0.57									

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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 (%)