Project Name: TAM
Project Code: TAM **Site ID:** H264 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	**Locality:**	2.0KM NW of Exeter:64M along Rd (on 189degrees) from fence (on 280degrees) and 33M from Rd fence into paddock:
Date Desc.:	09/04/64	**Elevation:**	73 metres
Map Ref.:		**Rainfall:**	930
Northing/Long.:	146.936111111111	**Runoff:**	Very slow
Easting/Lat.:	-41.2847222222222	**Drainage:**	Rapidly drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Sandstone

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Upper-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Gently inclined
Slope:	7 %	**Aspect:**	315 degrees

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Parapanic Humic/Humosequic Semiaquic Podosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Mapping Unit: N/A
Principal Profile Form: Uc2.33
Great Soil Group: Podzol

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Fern, 1.01-3m, Sparse. *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.025 m	Very dark grey (10YR3/1-Moist); ; Sand (Fibric); Massive grade of structure; Moist; Very weak consistence; Abundant, fine (1-2mm) roots; Diffuse change to -
A12	0.025 - 0.11 m	Very dark grey (10YR3/1-Moist); ; Sand (Fibric); Massive grade of structure; Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Charcoal, coarse fragments; Abundant, fine (1-2mm) roots; Gradual change to -
A1A2	0.11 - 0.19 m	Very dark grey (10YR3/1-Moist); ; Sand; Single grain grade of structure; Moist; Very weak consistence; CommonDiffuse change to -
A21	0.19 - 0.28 m	Light brownish grey (10YR6/2-Moist); , 10YR52, 2-10% ; , 2-10% ; Sand; Single grain grade of structure; Moist; Loose consistence; 0-2%, Charcoal, coarse fragments; CommonDiffuse change to -
A22	0.3 - 0.43 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Moist; Loose consistence; FewDiffuse change to -
A23	0.43 - 0.71 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Moist; Loose consistence; FewAbrupt, Tongued change to -
B21h	0.71 - 0.91 m	Very dark brown (10YR2/2-Moist); ; Sand; Massive grade of structure; Moist; Organic pan, Massive;
B22h	0.76 - 0.89 m	Yellowish brown (10YR5/6-Moist); , 2.5Y44; , 7.5YR56; Sand; Single grain grade of structure; Moist; Very weak consistence;
B2h	0.96 - 1.12 m	Very dark brown (10YR2/2-Moist); , 10YR56; , 2.5Y54; Sand; Massive grade of structure; Moderately moist; Organic pan, Massive;
	0.99 - 1.1 m	Dark brown (10YR3/3-Moist); , 10YR42; Sand; Single grain grade of structure; Very weak consistence;
	1.07 - 1.14 m	Yellowish brown (10YR5/6-Moist); , 2.5Y54; Clayey sand; Single grain grade of structure; Fine, (0 - 5) mm crack; Firm consistence; Few

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1.14 - 1.37 m	Yellowish brown (10YR5/6-Moist); , 2.5Y54; Clayey sand; Single grain grade of structure; Firm consistence;
1.37 - 1.65 m	Strong brown (7.5YR5/6-Moist); , 10YR56; , 2.5Y52; Sandy clay loam (Light); Single grain grade of structure; Firm consistence;
1.93 - 2.03 m	Yellowish brown (10YR5/6-Moist); , 2.5Y54; , 7.5YR56; Clayey sand; Single grain grade of structure; Weak consistence;
2.44 - 2.51 m	Dark greyish brown (10YR4/2-Moist); , 10YR52; , 10YR56; Sand; Massive grade of structure; Organic pan, Moderately cemented, Massive;

Morphological Notes

Observation Notes

TONGUES OF A2 EXTEND TO 168CM:71-91CM SAMPLE FROM OUTER SHELL OF B2h POCKET:76-89CM FROM CORE OF B2h POCKET: LAYERS RE NUMBERED 14/10/92

Site Notes

QUAMBY

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.025	5.6A	0.051A	5.7H	1.7	0.23	0.12	11.5E		19.3B	
0.025 - 0.11	4.7A	0.051A	2.3H	0.85	0.13	0.12	9.2E		12.6B	
0.11 - 0.19	4.5A	0.039A								
0.19 - 0.28	5A	0.012A								
0.3 - 0.43	4.8A	0.012A								
0.43 - 0.71	5.1A	0.009A								
0.71 - 0.91	4.8A	0.022A								
0.76 - 0.89	5A	0.02A								
0.96 - 1.12	5.3A	0.021A								
0.99 - 1.1	5A	0.024A								
1.07 - 1.14	5.4A	0.018A								
1.14 - 1.37	5.5A	0.021A								
1.37 - 1.65	5.6A	0.018A	0.08H	1.4	0.11	0.17	6.8E		8.6B	
1.93 - 2.03	5.6A	0.018A								

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 - 0.025		3.3D		0.006D	0.15A			0	32B	56	3	2
0.025 - 0.11		2.17D		0.004D	0.09A			0	32B	61	3	2
0.11 - 0.19		1.22D			0.044A							
0.19 - 0.28												
0.3 - 0.43												
0.43 - 0.71		0.08D			0.004A							
0.71 - 0.91		0.7D			0.027A							
0.76 - 0.89		0.27D			0.018A							
0.96 - 1.12		0.68D			0.025A							
0.99 - 1.1		0.36D			0.017A							
1.07 - 1.14		0.1D			0.009A							
1.14 - 1.37												
1.37 - 1.65								0	22D	56	1	19
1.93 - 2.03												

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 - 0.025										
0.025 - 0.11										
0.11 - 0.19										
0.19 - 0.28										
0.3 - 0.43										
0.43 - 0.71										
0.71 - 0.91										
0.76 - 0.89										
0.96 - 1.12										
0.99 - 1.1										
1.07 - 1.14										
1.14 - 1.37										
1.37 - 1.65										

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1.93 - 2.03

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette