Project Name: TAM
Project Code: TAM **Site ID:** H262 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock
Date Desc.: 08/04/64
Map Ref.:
Northing/Long.: 146.8633333
Easting/Lat.: -41.32333333
Locality: 2.0KM N of Glengarry:12M from paddock fence opposite PMG steel pole 34(bearing 237degrees):
Elevation: 88 metres
Rainfall: 1010
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: No Data
Elem. Type: Plain
Slope: 3.5 %
Pattern Type: Plain
Relief: No Data
Slope Category: Gently inclined
Aspect: 270 degrees

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Dystrophic Brown Kurosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.81
Great Soil Group: Yellow podzolic soil

Site Disturbance: Limited clearing, for example selective logging

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

Surface Coarse Fragments: 2-10%, , rounded, Gravel

Profile Morphology

A11	0 - 0.025 m	Very dark grey (10YR3/1-Moist); ; Sandy loam; Massive grade of structure; Moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Common, fine (1-2mm) roots; Diffuse change to -
A12	0.025 - 0.08 m	Very dark grey (10YR3/1-Moist); ; Fine sandy loam; Weak grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments; Common, coarse (>5mm) roots; Clear change to -
A2	0.08 - 0.14 m	Grey (10YR5/1-Moist); ; Fine sandy loam; Massive grade of structure; Moderately moist; 50-90%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments; , Weakly cemented, Massive; FewGradual, Irregular change to -
A3B1	0.16 - 0.23 m	Light brownish grey (10YR6/2-Moist); , 10YR54; Fine sandy clay loam; Massive grade of structure; Fine, (0 - 5) mm crack; Moderately moist; 2-10%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments; , Weakly cemented, Massive; FewGradual change to -
B21	0.23 - 0.36 m	Yellowish brown (10YR5/6-Moist); , 5YR56; , 2.5Y54; Heavy clay; Weak grade of structure, 50-100 mm, Subangular blocky; Moderately moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments; Few, fine (1-2mm) roots; Diffuse change to -
B22	0.36 - 0.51 m	Yellowish brown (10YR5/6-Moist); , 5YR56; , 2.5Y54; Heavy clay; Massive grade of structure; Moderately moist; Weak consistence; Diffuse change to -
B23	0.51 - 0.69 m	Light olive brown (2.5Y5/4-Moist); , 10YR56; , 5YR56; Heavy clay; Massive grade of structure; Moderately moist; Weak consistence; Diffuse change to -
BC	0.69 - 0.84 m	Light olive brown (2.5Y5/4-Moist); , 10YR56; , 2.5YR48; Heavy clay; Massive grade of structure; Moderately moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Mudstone, coarse fragments; Diffuse change to -
BC	0.84 - 1.04 m	Yellowish brown (10YR5/6-Moist); , 10YR51; , 5YR56; Massive grade of structure; Moderately moist; Weak consistence; 20-50%, coarse gravelly, 20-60mm, Mudstone, coarse fragments;

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1.14 - 1.42 m ; Clear change to -

Morphological Notes

YB+YR+W soft decomposing mudstone with fenestella:

Observation Notes

PROMINENT DB/ORGANIC COATINGS COMMON AT 23CM TO FEW AT 84CM:2.5-8CM <10% <6MM CHARCOAL ALSO:>51CM W`D MU INCREASING:

Site Notes

QUAMBY

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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 - 0.025	4.3A	0.063A	5.5H	2.2	0.36	0.25	30.3E		38.6B	
0.025 - 0.08	4.6A	0.092A	4H	1.9	0.2	0.36	25.4E		31.9B	
0.08 - 0.14	4.7A	0.027A								
0.16 - 0.23	4.9A	0.024A								
0.23 - 0.36	5A	0.021A	0.23H	0.28	0.13	0.11	15.4E		16.2B	
0.36 - 0.51	5.1A	0.021A								
0.51 - 0.69	5.2A	0.024A	0.08H	1.1	0.16	0.17	19.2E		20.7B	
0.69 - 0.84	5.3A	0.021A								
0.84 - 1.04	5.2A	0.027A	0.08H	1.2	0.12	0.22	20.7E		22.3B	

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		8.73D		0.011D	0.279A			<1	7B	35	37	9
0.025 - 0.08		5.54D		0.007D	0.149A			<1	7B	37	40	9
0.08 - 0.14		2.21D			0.051A							
0.16 - 0.23		0.72D			0.022A							
0.23 - 0.36								<1	4D	21	33	39
0.36 - 0.51												
0.51 - 0.69								0	2D	16	28	50
0.69 - 0.84												
0.84 - 1.04								1	5D	19	26	47

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 - 0.08										
0.08 - 0.14										
0.16 - 0.23										
0.23 - 0.36										
0.36 - 0.51										
0.51 - 0.69										
0.69 - 0.84										
0.84 - 1.04										

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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
XRD_C_Ch	Chlorite - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_Vm	Vermiculte - X-Ray Diffraction