

Project Name: TAM
Project Code: TAM **Site ID:** H250 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	3.7KM south west of Bridgenorth on SW side of road:1.8M NE from fence:
Date Desc.:	25/04/63	Elevation:	216 metres
Map Ref.:		Rainfall:	910
Northing/Long.:	146.948611111111	Runoff:	Moderately rapid
Easting/Lat.:	-41.4069444444445	Drainage:	Very poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1.4 m deep,Dolerite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Hills
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Bench	Slope Category:	Gently inclined
Slope:	6 %	Aspect:	45 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Eutrophic Brown Chromosol		Principal Profile Form:	Db1.73
ASC Confidence:		Great Soil Group:	Grey-brown podzolic soil
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Closed or dense. *Species includes - None recorded
 Mid Strata - Tree, , . *Species includes - None recorded
 Tall Strata - Tree, , . *Species includes - Eucalyptus viminalis

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.02 m	Very dark grey (10YR3/1-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm, Granular; Moderately moist; Weak consistence; 2-10%, Charcoal, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
A12	0.02 - 0.09 m	Very dark grey (10YR3/1-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Weak consistence; 2-10%, Dolerite, coarse fragments; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions; Abundant, fine (1-2mm) roots; Diffuse, Irregular change to -
A1/A2	0.09 - 0.23 m	Very dark grey (10YR3/1-Moist); , 10YR53; Fine sandy clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Weak consistence; 20-50%, Dolerite, coarse fragments; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions; CommonClear, Wavy change to -
A2	0.24 - 0.33 m	Brown (10YR4/3-Moist); , 10YR63; Fine sandy clay loam; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; 50-90%, Dolerite, coarse fragments; Many (20 - 50 %), Ferruginous, Fine (0 - 2 mm), Concretions; CommonAbrupt change to -
B21	0.34 - 0.48 m	Dark greyish brown (2.5Y4/3-Moist); , 10YR44; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; 2-10%, Dolerite, coarse fragments; Few cutans, <10% of ped faces or walls coated; FewDiffuse change to -
B22	0.48 - 0.74 m	Dark greyish brown (2.5Y4/3-Moist); , 10YR56; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, Gravel, coarse fragments; Few
B	0.74 - 0.89 m	Dark greyish brown (2.5Y4/3-Moist); , 10YR56; Heavy clay; Massive grade of structure; Smooth-ped fabric; Moderately moist; Very firm consistence; 0-2%, Gravel, coarse fragments; Few
B/C	0.94 - 1.09 m	Olive (5Y4/3-Moist); , 10YR56; , 5Y81; Heavy clay; Massive grade of structure; Moderately moist; Firm consistence;

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C 1.09 - 1.27 m Olive (5Y4/3-Moist); , 10YR56; , 5Y81; Heavy clay; Moist; Very weak consistence;
C 1.27 - 1.35 m Olive (5Y4/3-Moist); , 10YR56; , 5Y81; Heavy clay; Moist; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations;

Morphological Notes

Observation Notes

9-23CM WORM ACTIVITY AND MIXING OF A1 AND A2:2-9CM <2% CHARCOAL ALSO:109-135CM CLAYEY MEALY WEATHERED DR:94-109CM C AND WEATHERED DR:

Site Notes

QUAMBY

Observation ID: 1

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 - 0.02	5.9A	0.077A	8.1H	4.7	0.46	0.23	15.4E		28.9B	
0.02 - 0.09	6.1A	0.054A	7H	4.1	0.21	0.26	14.1E		25.7B	
0.09 - 0.23	6.2A	0.036A								
0.24 - 0.33	6.4A	0.018A	1.9H	2.1	0.49	0.13	6.1E		10.7B	
0.34 - 0.48	6.6A	0.036A	10.6H	16.2	0.16	0.77	10.3E		38B	
0.48 - 0.74	6.7A	0.065A								
0.74 - 0.89	7.3A	0.116A								
0.94 - 1.09	8.1A	0.164A								
1.09 - 1.27	8.5A	0.259A								
1.27 - 1.35	8.6A	0.307A								

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Laboratory Analyses Completed for this profile

15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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