

Project Name: TAM
Project Code: TAM **Site ID:** H257 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	4.8KM SE of Beaconsfield on west side of West Tamar Highway 14.6M upslope from HEC pole 304:
Date Desc.:	23/05/63	Elevation:	50 metres
Map Ref.:		Rainfall:	940
Northing/Long.:	146.855555555556	Runoff:	Moderately rapid
Easting/Lat.:	-41.234722222222	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	Rolling low hills 30-90m 10-	Pattern Type:	Low hills
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	13 %	Aspect:	22 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Mottled Dystrophic Brown Kurosol		Principal Profile Form:	Dy3.21
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
All necessary analytical data are available.			

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - , , Closed or dense. *Species includes - None recorded
Mid Strata - Tree, , . *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Dark grey (10YR4/1-Moist); ; Fine sandy loam; Weak grade of structure, <2 mm, Granular; Moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Common, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.05 - 0.09 m	Grey (2.5Y5/1-Moist); ; Fine sandy loam; Massive grade of structure; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; FewClear, Wavy change to -
A2	0.05 - 0.09 m	Grey (2.5Y5/1-Moist); ; Fine sandy loam; Massive grade of structure; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; FewClear, Wavy change to -
A2A3	0.09 - 0.14 m	Grey (2.5Y5/1-Moist); ; Fine sandy loam; Massive grade of structure; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Few
A3	0.14 - 0.28 m	Light yellowish brown (2.5Y6/4-Moist); , 10YR53; Fine sandy clay loam; Massive grade of structure; Moderately moist; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; , Moderately cemented, Massive; Abrupt, Wavy change to -
B21	0.29 - 0.41 m	Yellowish brown (10YR5/6-Moist); , 10YR32; Heavy clay; Weak grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Few, coarse (>5mm) roots; Gradual change to -
B22	0.41 - 0.56 m	Yellowish brown (10YR5/4-Moist); , 7.5YR56, 2-10% , Faint; , 7.5YR44, 2-10% , Faint; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
B23	0.56 - 0.76 m	Olive grey (5Y5/2-Moist); , 7.5YR44; , 10YR54; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; FewDiffuse change to -

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B24	0.76 - 0.94 m	Olive grey (5Y5/2-Moist); , 7.5YR56; , 5YR58; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; FewDiffuse change to -
B25	0.94 - 1.07 m	Olive grey (5Y5/2-Moist); , 7.5YR56; , 2.5YR48; Heavy clay; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Firm consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Clear change to -
BC	1.07 - 1.22 m	Strong brown (7.5YR5/6-Moist); , N70; , 2.5Y84; Fine sandy medium clay; Massive grade of structure; Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments;
BC	1.37 - 1.47 m	(N7/0-Moist); , 7.5YR56; , 2.5YR48; Fine sandy medium clay; Moderately moist; Strong consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments;

Morphological Notes

Observation Notes

0-9CM <10% CC ALSO:14-28CM <2% CHARCOAL ALSO:0-28CM ROUNDED <40MMQZ PEBBLES ALSO:>107CM LARGE
GV IN W'D MU : LAYERS RE NUMBERED 14/10/92

Site Notes

BEACONSFIELD

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[illegible]

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
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_Hm	Hematite - 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	Vermiculite - X-Ray Diffraction