

**Project Name:** TAM  
**Project Code:** TAM      **Site ID:** H256      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

#### Site Information

<b>Desc. By:</b>	G.M. Dimmock	<b>Locality:</b>	3.6KM SW of Beaconsfield:4CH on 217degrees from corner of fences on 86degrees and 356degrees respectively:
<b>Date Desc.:</b>	22/05/63	<b>Elevation:</b>	122 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	940
<b>Northing/Long.:</b>	146.798611111111	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-41.229166666667	<b>Drainage:</b>	Rapidly drained

#### Geology

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Soil pit, 1.2 m deep,Serpentinite

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Self-mulching

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Mottled Mesotrophic Red Chromosol	<b>Principal Profile Form:</b>	Gn2.14
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Red earth

All necessary analytical data are available.

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:**

Low Strata - Fern, , . \*Species includes - None recorded

Mid Strata - Tree, , . \*Species includes - Casuarina suberosa

Tall Strata - Tree, , . \*Species includes - Eucalyptus obliqua, Eucalyptus viminalis

#### Surface Coarse Fragments:

#### Profile Morphology

A	0 - 0.025 m	Black (5YR2/1-Moist); ; Loam; Weak grade of structure, <2 mm, Granular; Moist; Very weak consistence; 20-50%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Common, fine (1-2mm) roots; Gradual change to -
	0.025 - 0.08 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Very weak consistence; 20-50%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Common, fine (1-2mm) roots; Gradual change to -
	0.08 - 0.13 m	Dark red (2.5YR3/6-Moist); ; Clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Very weak consistence; 2-10%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Few, coarse (>5mm) roots; Diffuse change to -
	0.13 - 0.18 m	Dark red (2.5YR3/6-Moist); ; Clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Weak consistence; 2-10%, Gravel, coarse fragments; Few, fine (1-2mm) roots; Diffuse change to -
	0.18 - 0.33 m	Dark red (2.5YR3/6-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Weak consistence; 2-10%, Gravel, coarse fragments; FewDiffuse change to -
	0.33 - 0.48 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 2-10%, Gravel, coarse fragments; Few cutans, <10% of ped faces or walls coated; FewDiffuse change to -
	0.48 - 0.58 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Many (>5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -
	0.58 - 0.74 m	Dark red (2.5YR3/6-Moist); , 2.5YR48; Medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Many (>5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -

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0.74 - 0.86 m	Dark red (2.5YR3/6-Moist); , 2.5YR48; Medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Weak consistence; 2-10%, Gravel, coarse fragments; Clear change to -
0.86 - 1.04 m	Dark red (2.5YR3/6-Moist); , 7.5YR46; , 10YR56; Medium clay; Massive grade of structure; Strong consistence; 2-10%, Gravel, coarse fragments;
1.04 - 1.19 m	Dark red (2.5YR3/6-Moist); , 7.5YR46; , 10YR56; Medium clay; Massive grade of structure; Very strong consistence; 20-50%, coarse gravelly, 20-60mm, Substrate material, coarse fragments;

**Morphological Notes**

**Observation Notes**

>119CM ON HAEMATITE: SURFACE OUTCROPS OF CONCRETIONARY LATERITE:

**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
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
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