

**Project Name:** PAU  
**Project Code:** PAU      **Site ID:** H229      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

#### Site Information

<b>Desc. By:</b>	K.D. Nicholls	<b>Locality:</b>	4.8KM S of Mathinna in forestry commission pine plantation:14CH on 130degrees from shield tree FCT4(on Mathinna track)
<b>Date Desc.:</b>	09/11/61	<b>Elevation:</b>	518 metres
<b>Map Ref.:</b>	Sheet No. : 4794	<b>Rainfall:</b>	900
<b>Northing/Long.:</b>	147.901388888889	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-41.5083333333333	<b>Drainage:</b>	Moderately well 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>	Auger boring, 1.5 m deep,Slate

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Ridge	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	15.8 %	<b>Aspect:</b>	113 degrees

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Bleached-Acidic Magnesic Brown Kandosol	<b>Principal Profile Form:</b>	Gn2.74
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Yellow podzolic soil
All necessary analytical data are available.		

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

**Vegetation:** Low Strata - Fern, , . \*Species includes - None recorded  
 Tall Strata - Tree, 20.01-35m, . \*Species includes - Eucalyptus obliqua

**Surface Coarse Fragments:** 2-10%, , , Quartz

#### Profile Morphology

A1	0 - 0.02 m	Black (10YR2/1-Moist); ; Sandy loam; Moderate grade of structure, <2 mm, Granular; Moist; Weak consistence; 0-2%, subangular platy, Quartzite, coarse fragments; ManyDiffuse change to -
A1	0.02 - 0.08 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Weak grade of structure, <2 mm, Granular; Moist; Weak consistence; 0-2%, subangular platy, Quartzite, coarse fragments; ManyDiffuse change to -
A2	0.08 - 0.15 m	Light brownish grey (10YR6/2-Moist); ; Sand (Heavy); Single grain grade of structure; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Diffuse, Tongued change to -
A3B1	0.15 - 0.25 m	Light grey (2.5Y7/2-Moist); , 10YR66; Clayey sand; Massive grade of structure; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Clear, Irregular change to -
B1	0.25 - 0.38 m	Reddish yellow (7.5YR6/6-Moist); , 2.5Y64; Sandy clay loam; Massive grade of structure; Moist; Very weak consistence; 20-50%, Gravel, coarse fragments; Few, fine (1-2mm) roots; Diffuse change to -
B2	0.38 - 0.51 m	Strong brown (7.5YR5/8-Moist); ; Sandy medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Moist; Very weak consistence; 20-50%, Gravel, coarse fragments; Clear change to -
BC	0.51 - 0.71 m	Brownish yellow (10YR6/6-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Weak consistence; 10-20%, Gravel, coarse fragments; Diffuse change to -
BC	0.71 - 0.89 m	Strong brown (7.5YR5/8-Moist); , 10YR68; Clayey sand; Massive grade of structure; Moist; Weak consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -
	0.89 - 1.07 m	Reddish yellow (7.5YR6/8-Moist); , 10YR68; Sandy clay loam; Massive grade of structure; Weak consistence; 10-20%, Gravel, coarse fragments; Clear change to -

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1.07 - 1.19 m      Brownish yellow (10YR6/8-Moist); , 7.5YR68; , 5YR58; Silty medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -

**Morphological Notes**

**Observation Notes**

0-8CM <2% CHARCOAL + ANGULAR VEIN OF QUARTZ ALSO:>132CM LAMINATED W'D ROCK (PROBABLY SLATE):

**Site Notes**

BEN LOMOND

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[illegible]

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**Laboratory Analyses Completed for this profile**

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
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
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