

**Project Name:** MEA  
**Project Code:** MEA      **Site ID:** H185      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	K.D. Nicholls	<b>Locality:</b>	Alongside Lake H`way 4.85KM south of Deloraine:
<b>Date Desc.:</b>	08/03/59	<b>Elevation:</b>	259 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	990
<b>Northing/Long.:</b>	146.6375	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-41.5625	<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>	Metamorphic rock (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Steep hills 90-300m 32-56%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Footslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	8.8 %	<b>Aspect:</b>	270 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Acidic Mesotrophic Red Kandosol		<b>Principal Profile Form:</b>	Gn2.41
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red podzolic soil
All necessary analytical data are available.			

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

**Vegetation:** Low Strata - Fern, , , Mid-dense. \*Species includes - None recorded  
Tall Strata - Tree, , . \*Species includes - Eucalyptus viminalis, Acacia species

**Surface Coarse Fragments:** 10-20%, coarse gravelly, 20-60mm, , Gravel

**Profile Morphology**

0 - 0.04 m	Dark brown (7.5YR3/2-Moist); Brown (7.5YR4/2-Dry); ; Loam; Moderate grade of structure, <2 mm, Granular; Weak consistence; 50-90%, Gravel, coarse fragments; Sharp change to -
0.04 - 0.11 m	Reddish brown (5YR4/3-Moist); Light brown (7.5YR6/4-Dry); ; Fine sandy loam (Heavy); Weak grade of structure, <2 mm, Granular; Few (<1 per 100mm2) Fine (1-2mm) macropores, Very weak consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Diffuse change to -
0.11 - 0.18 m	Reddish brown (5YR4/4-Moist); Light brown (7.5YR6/4-Dry); ; Silty loam; Weak grade of structure, <2 mm, Granular; Few (<1 per 100mm2) Fine (1-2mm) macropores, Very weak consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Diffuse change to -
0.18 - 0.29 m	Reddish brown (5YR4/4-Moist); Light brown (7.5YR6/4-Dry); ; Silty clay loam; Massive grade of structure; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Diffuse change to -
0.29 - 0.46 m	Yellowish red (5YR4/8-Moist); Reddish yellow (5YR6/6-Dry); ; Silty medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Firm consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Diffuse change to -
0.46 - 0.63 m	Red (2.5YR4/8-Moist); Red (2.5YR4/6-Dry); ; Silty medium clay; Massive grade of structure; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Diffuse change to -
0.63 - 0.81 m	Red (2.5YR4/8-Moist); Red (2.5YR4/6-Dry); ; Silty medium clay; Massive grade of structure; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Diffuse change to -
0.81 - 0.99 m	Red (2.5YR4/8-Moist); Red (2.5YR4/6-Dry); ; Silty medium clay; Massive grade of structure; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Diffuse change to -
0.99 - 1.17 m	Red (2.5YR4/8-Moist); ; Silty clay loam (Heavy); Massive grade of structure; Weak consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments;

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1.78 - 1.9 m      Dark red (2.5YR3/8-Moist); ; Silty clay loam (Heavy); 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Diffuse change to -

**Morphological Notes**

**Observation Notes**

46-190CM LYB W`D ROCK FRAGMENTS INCREASING DOWN PROFILE:0-190CM GRAVELSALSO HAS <10% 25MM A QZ:

**Site Notes**

QUAMBY

**Observation ID: 1**

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 - 0.04										
0.04 - 0.11										
0.11 - 0.18										
0.18 - 0.29										
0.29 - 0.46										
0.46 - 0.63										
0.63 - 0.81										
0.81 - 0.99										
0.99 - 1.17										
1.78 - 1.9										

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