

Project Name: MEA
Project Code: MEA **Site ID:** H198 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	4KM west of Carrick property "Quamby Plains":1.46CH NW of two joining fences:
Date Desc.:	14/05/60	Elevation:	165 metres
Map Ref.:		Rainfall:	700
Northing/Long.:	146.965277777778	Runoff:	Slow
Easting/Lat.:	-41.5208333333334	Drainage:	Imperfectly drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Terrace (alluvial)
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Very gently sloped
Slope:	1.5 %	Aspect:	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Mesotrophic Brown Chromosol		Principal Profile Form:	Db3.41
ASC Confidence:		Great Soil Group:	Lateritic podzolic soil

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Fern, 0.51-1m, Mid-dense. *Species includes - None recorded
 Mid Strata - Tree, , . *Species includes - Acacia species
 Tall Strata - Tree, 20.01-35m, . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.04 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Single grain grade of structure; Moist; Very weak consistence; Sharp, Wavy change to -
A1A2	0.04 - 0.1 m	Very dark grey (10YR3/1-Moist); , 10YR41; Sand (Heavy); Single grain grade of structure; Wet; Very weak consistence; Diffuse change to -
A2	0.1 - 0.22 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Wet; Very weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
A2A3	0.25 - 0.36 m	Pale brown (10YR6/3-Moist); ; Sand; Single grain grade of structure; Wet; Loose consistence; 50-90%, coarse gravelly, 20-60mm, Coal, coarse fragments; Clear change to -
A3	0.36 - 0.46 m	Yellowish brown (10YR5/4-Moist); ; Clayey sand; Single grain grade of structure; Wet; Loose consistence; 50-90%, coarse gravelly, 20-60mm, Coal, coarse fragments; Sharp change to -
B	0.47 - 0.58 m	Dark yellowish brown (10YR4/6-Moist); ; Heavy clay; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Clear change to -
B	0.58 - 0.74 m	Dark yellowish brown (10YR4/6-Moist); , 2.5YR48; Heavy clay; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
BC	0.74 - 0.89 m	Dark yellowish brown (10YR4/6-Moist); , 2.5YR48; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Firm consistence; Diffuse change to -
C	0.89 - 1.04 m	Yellowish brown (10YR5/6-Moist); , 10R36; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; Diffuse change to -
C	1.04 - 1.17 m	Yellowish brown (10YR5/6-Moist); , 10R36; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -
	1.24 - 1.4 m	Brownish yellow (10YR6/8-Moist); , 5Y71; Clayey sand; Weak consistence;

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1.96 - 2.11 m White (5Y8/2-Moist); , 10YR68; , 7.5YR58; Fine sandy medium clay; Weak consistence;

3.3 - 3.4 m Light grey (5Y7/1-Moist); , 10YR56; , 5YR46; Clayey sand; Weak consistence;

Morphological Notes

Observation Notes

74-89CM 10YR44 COATINGS TO FACES:89-117CM 2.5Y62 COATINGS TO FACES:>89CM NOTE COARSE SAND WITH GRIT:

Site Notes

QUAMBY

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[illegible]

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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
XRD_C_Gt	Goethite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction