Project Name: MEA
Project Code: MEA **Site ID:** H177 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: K.D. Nicholls
Date Desc.: 02/10/58
Map Ref.:
Northing/Long.: 146.556944444444
Easting/Lat.: -41.6472222222222
Locality: 2.4KM west of Meander:
Elevation: 332 metres
Rainfall: 1070
Runoff: Rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 0.99 m deep,Mudstone

Land Form

Rel/Slope Class: Rolling mountains >300m 10-32%
Morph. Type: Lower-slope
Elem. Type: Scarp-foot slope
Slope: 14 %
Pattern Type: Plateau
Relief: No Data
Slope Category: Moderately inclined
Aspect: 135 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Acidic Mesotrophic Brown Kandosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Gn2.24
Great Soil Group: Yellow podzolic soil

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Fern, 0.51-1m, Mid-dense. *Species includes - None recorded

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

Surface Coarse Fragments: 10-20%, cobbly, 60-200mm, , Shale

Profile Morphology

A1	0 - 0.04 m	Very dark grey (10YR3/1-Moist); ; Silty loam (Fibric); Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Very weak consistence; 2-10%, cobbly, 60-200mm, Mudstone, coarse fragments; Clear, Tongued change to -
A1A2	0.04 - 0.09 m	Very dark grey (10YR3/1-Moist); , 7.5YR56; Silty loam; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Very weak consistence; 20-50%, cobbly, 60-200mm, Mudstone, coarse fragments; Clear, Tongued change to -
A2A1	0.09 - 0.16 m	Brown (7.5YR5/4-Moist); ; Silty loam; Weak grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; 20-50%, cobbly, 60-200mm, Mudstone, coarse fragments; Clear, Wavy change to -
BA2	0.18 - 0.25 m	Brown (7.5YR5/4-Moist); ; Silty clay loam; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 10-20%, cobbly, 60-200mm, Mudstone, coarse fragments;
B	0.28 - 0.38 m	Strong brown (7.5YR5/8-Moist); ; Clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Weak consistence; 10-20%, cobbly, 60-200mm, Mudstone, coarse fragments;
B	0.38 - 0.51 m	Brownish yellow (10YR6/8-Moist); ; Clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Weak consistence; 2-10%, cobbly, 60-200mm, Mudstone, coarse fragments; Diffuse, Wavy change to -
BC	0.51 - 0.63 m	Brownish yellow (10YR6/6-Moist); , 5YR48; 20-50%, Mudstone, coarse fragments;
C	0.91 - 0.99 m	Light grey (5Y7/2-Moist); , 10YR66; 20-50%, Mudstone, coarse fragments;

Morphological Notes

Observation Notes

51-63CM W`D MUDSTONE AND CL:91-99CM WEATHERED MUDSTONE:

Site Notes

QUAMBY

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.04	5.4A	0.101A	12.5H	3.1	0.56	0.16	15.9H 25.9E		42.2B	
0.04 - 0.09	5.3A	0.08A								
0.09 - 0.16	5.1A	0.057A	2H	1.4		0.04	8.9H 13.4E		17.2B	
0.18 - 0.25	5.2A	0.039A			0.34					
0.28 - 0.38	5.2A	0.042A	1.6H	1.7		0.05	9.7H 13.5E		17.2B	
0.38 - 0.51	5A	0.036A			0.32					
0.51 - 0.63	4.9A	0.033A	0.72H	1.1		0.05	9.8H 13.2E		15.3B	
0.91 - 0.99	5A	0.03A			0.21					

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04		6.9D		0.032D	0.244A			6	1B	37	24	30
0.04 - 0.09		4.4D		0.025D	0.166A							
0.09 - 0.16		1.5D		0.019D	0.081A			26	2B	40	30	24
0.18 - 0.25		0.82D			0.054A							
0.28 - 0.38								15	<1D	29	28	40
0.38 - 0.51												
0.51 - 0.63								30	1D	28	29	35
0.91 - 0.99												

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 - 0.09									
0.09 - 0.16									
0.18 - 0.25									
0.28 - 0.38									
0.38 - 0.51									
0.51 - 0.63									
0.91 - 0.99									

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Laboratory Analyses Completed for this profile

15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - 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
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
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	Vermiculte - X-Ray Diffraction