Project Name: MEA

Project Code: MEA Site ID: H175 Observation ID: 1

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: K.D. Nicholls Locality: 4.8KM south east of Quamby Bluff .4KM east of Lake

Highway:

Easting/Lat.: -41.684444444445 Drainage: Moderately well drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Soil pit, 0.8 m deep,Sandstone

Land Form

Rel/Slope Class: Steep mountains >300m 32- Pattern Type: Plateau

56%

Morph. Type:No DataRelief:914 metresElem. Type:ScarpSlope Category:Moderately inclinedSlope:0 %Aspect:0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AAcidic Dystrophic Brown KandosolPrincipal Profile Form:Gn2.61

ASC Confidence: Great Soil Group: Brown podzolic soil

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, , . *Species includes - Eucalyptus delegatensis

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.02 m Very dark grey (10YR3/1-Moist); ; Sandy loam; Weak grade of structure, <2 mm, Granular; Weak

consistence; 2-10%, cobbly, 60-200mm, Sandstone, coarse fragments; Diffuse change to -

0.02 - 0.09 m Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm,

Subangular blocky; Weak consistence; 0-2%, cobbly, 60-200mm, Sandstone, coarse fragments;

Diffuse change to -

0.09 - 0.18 m Dark brown (10YR3/3-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm, Subangular blocky;

Weak consistence; 20-50%, cobbly, 60-200mm, Sandstone, coarse fragments;

CommonDiffuse change to -

0.18 - 0.3 m Dark yellowish brown (10YR4/4-Moist); , 10YR33; Sandy loam (Heavy); Massive grade of

structure; Weak consistence; 10-20%, cobbly, 60-200mm, Sandstone, coarse fragments;

Diffuse change to -

0.3 - 0.46 m Brown (7.5YR4/4-Moist); , 10YR41; Sandy clay loam; Massive grade of structure; Weak

consistence; 10-20%, cobbly, 60-200mm, Sandstone, coarse fragments; Clear change to -

0.47 - 0.61 m Strong brown (7.5YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Weak

consistence; 2-10%, cobbly, 60-200mm, Sandstone, coarse fragments; Diffuse change to -

Strong brown (7.5YR5/8-Moist); ; Sandy clay loam; Massive grade of structure; Weak consistence; 2-10%, cobbly, 60-200mm, Sandstone, coarse fragments;

0.76 - 0.86 m

0.61 - 0.76 m

Morphological Notes

Fairly hard yellow-grey micaceous sandstone:

Observation Notes

9-18CM SLIGHT GLEYING AROUND ROOTS:18-46CM MOTTLE PROBABLY GLEYING OR WORM CASTS:

Site Notes

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	Laboratory	/ Test Results:
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Depth Depth	pH	1:5 EC	Eve	hangeable	Cations		Exchangeable	CEC	FC	EC	_	SP
Бериі	рп	C		Mg	K	Na	Acidity	CEC	EC	LC		
m		dS/m				Cmol (+)/kg				9	6
0 - 0.02	4.9A	0.018A	5.9H	5.5	0.29		15.5H 25.4E		37	.3B		
0.02 - 0.09	5.3A	0.006A				0.16						
0.09 - 0.18	5.2A	0.006A	1.7H	0.85	0.09		7.8H 12.1E		14	.8B		
0.18 - 0.3	5A	0.006A				0.07						
0.3 - 0.46	4.9A	0.006A	0.15H	0.45	0.1		7.3H 16.9E		17	.6B		
0.47 - 0.61	4.8A	0.012A				0.02						
0.61 - 0.76	5A	0.006A	0.2H	0.05	0.08		6.6H 17.1E		17	.5B		
0.76 - 1.06						0.04						
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	Density	Pa GV	CS F	S	alysis Silt (Clay
m	%	%	mg/kg	%	%	%	Mg/m3		(%		
0 - 0.02 0.02 - 0.09 0.09 - 0.18		5.3D 2.6D 1.52D		0.046D 0.039D 0.037D	0.09	9A		6 28	33B 39D	43 43	6 10	9
0.18 - 0.3		1.020		0.007 2	0.00	<i>57</i> (20	000	40	.0	Ü
0.3 - 0.46				0.042)			16	28D	47	9	18
0.47 - 0.61 0.61 - 0.76								11	22D	54	12	15
0.76 - 1.06									220	54	12	13
Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat												
Depth	COLE	Sat.	Grav 0.05 Bar	imetric/Vo 0.1 Bar	lumetric W 0.5 Bar	ater Co		5 Bar	K sat	K	unsat	
m		out.	0.00 Bal		g - m3/m3		o Dai	o Dui	mm/h	ı	nm/h	

0 - 0.02 0.02 - 0.09 0.09 - 0.18

0.09 - 0.18 0.18 - 0.3 0.3 - 0.46 0.47 - 0.61 0.61 - 0.76 0.76 - 1.06

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Laboratory Analyses Completed for this profile

15_NR_NA Exch. basic cations (Na++) - 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 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
Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
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

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl , automated colour

9A_HCL Total element - P(%) - By boiling HCl

P10_GRAV Gravel (%)

P10_PB_C
P10_PB_CS
Clay (%) - Plummet balance
Coarse sand (%) - Plummet balance
P10_PB_FS
P10_PB_Z
Fine sand (%) - Plummet balance
Silt (%) - Plummet balance

P10A1_C Clay (%) - Pipette
P10A1_CS Coarse sand (%) - Pipette
P10A1_FS Fine sand (%) - Pipette
P10A1_Z Silt (%) - Pipette