Project Name: MEA

Project Code: MEA Site ID: H180 Observation ID: 1

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: K.D. Nicholls Locality: 4.1KM south east of Deloraine:pit is 111M from west

fence and 76M fromsouth fence of paddock:

 Date Desc.:
 04/10/58
 Elevation:
 305 metres

 Map Ref.:
 Rainfall:
 990

 Northing/Long.:
 146.679166666667
 Runoff:
 Rapid

Northing/Long.: 146.679166666667 Runoff: Rapid
Easting/Lat.: -41.5555555555555 Drainage: Well drained

Geology

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

 Geol. Ref.:
 No Data
 Substrate Material:
 Basalt

Land Form

Rel/Slope Class:No DataPattern Type:No DataMorph. Type:No DataRelief:No Data

Elem. Type: No Data Slope Category: Very gently sloped

Slope: 0 % Aspect: No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHumose-Acidic Mesotrophic Red FerrosolPrincipal Profile Form:Gn3.11ASC Confidence:Great Soil Group:Krasnozem

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Mid Strata - Tree, , Very sparse. *Species includes - Acacia species Tall Strata - Tree, 20.01-35m, . *Species includes - Eucalyptus viminalis

Surface Coarse Fragments:

Profile Morphology

A1	0.01 - 0.08 m	Dark reddish brown (2.5YR2/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Granular;
		Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Gravel, coarse
		fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -

0.08 - 0.16 m Dark reddish brown (2.5YR3/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Granular;

Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Gravel, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules; Clear change to -

0.16 - 0.3 m Dark red (2.5YR3/6-Moist); ; Light clay; Moderate grade of structure, <2 mm, Granular; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Gravel, coarse fragments; Few (2 -

10 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -

0.3 - 0.46 m Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Granular; Massive

grade of structure; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change to -

0.46 - 0.61 m Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Granular; Massive

grade of structure; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change

to -

0.61 - 0.74 m Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Granular; Massive

grade of structure; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Diffuse change

to -

0.74 - 0.94 m Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Granular; Massive

grade of structure; Weak consistence; 10-20%, cobbly, 60-200mm, subangular, Gravel, coarse

fragments; Diffuse change to -

0.94 - 1.27 m Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, <2 mm, Granular; Massive

grade of structure; Weak consistence; 20-50%, subangular, Gravel, coarse fragments; Diffuse

change to -

Project Name: MEA

Project Code: MEA Site ID: H13
Agency Name: CSIRO Division of Soils (TAS) Observation ID: 1 Site ID: H180

 $\label{thm:constant} \mbox{Yellowish red (5YR4/8-Moist); ; Silty clay loam; Very strong consistence; 20-50\%, subangular, Gravel, coarse fragments; \\$ 1.78 - 1.83 m

1.83 - 1.93 m

Morphological Notes

On moderately hard highly decomposed basalt:

Observation Notes

74-127CM CLAY WITH POCKETS OF VERY W'D BA OR SOFT LATERITE:178-183CM ZCL GROUND UP FROM HARD W'D ROCK:

Site Notes

QUAMBY

H180 Observation ID: 1

Project Name: MEA
Project Code: MEA Site ID: H18
Agency Name: CSIRO Division of Soils (TAS)

Laboratory Test Results.													
Depth	рН	1:5 EC		hangeable			xchangeable	CEC		ECEC	E	SP	
m		dS/m	Ca	Mg	К	Na Cmol (+)/	Acidity /kg				o,	/ o	
0.01 - 0.08	5.7A	0.804A	25.9H	2	2.2	0.12	24.4H 53.4E			83.6B			
0.08 - 0.16	5.7A	0.417A	13.3H	0.7	1.1	0.08	17.3H 41.6E			56.8B			
0.16 - 0.3	5.8A	0.292A											
0.3 - 0.46	5.4A	0.289A		0.49	0.72	0.03	4.4H 16.3E			19.5B			
0.46 - 0.61	5.1A	0.244A					2H						
0.61 - 0.84	5.1A		0.76H	0.82	0.09	0.37	3.8H 9.2E			11.3B			
0.74 - 0.94	5.8A	0.095A											
0.94 - 1.27	6A		0.72H	0.97	0.03	1.2	3.6H 9.6E			12.5B			
1.78 - 1.83	5.9A	0.083A											
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size	Analysis		
		C	P	Р	N	K	Density	G۷	cs	FS	Silt	Clay	
m	%	%	mg/kg	%	%	%	Mg/m3			%			
												00	
0.01 - 0.08		13 1D		0 1/11	0.82	22Δ		12	5B	16	20		
0.01 - 0.08		13.1D		0.141D				12 o	5B	16 19	_	28 36	
0.08 - 0.16		7.2D		0.141D 0.126D	0.44	14A		12 9	5B 5B	16 19	20 18	28 36	
0.08 - 0.16 0.16 - 0.3		7.2D 3.3D		0.126D	0.44 0.20	14A 04A		9	5B	19	18	36	
0.08 - 0.16 0.16 - 0.3 0.3 - 0.46		7.2D		-	0.44 0.20	14A)4A)5A			-	_	_		
0.08 - 0.16 0.16 - 0.3		7.2D 3.3D 1.8D		0.126D	0.44 0.20 0.10 0.05	14A 04A 05A 54A		9	5B	19	18	36	
0.08 - 0.16 0.16 - 0.3 0.3 - 0.46 0.46 - 0.61		7.2D 3.3D 1.8D 1.01D		0.126D 0.081D	0.44 0.20 0.10 0.05	14A 04A 05A 54A		9 18	5B 3B	19 18	18 19	36 55	
0.08 - 0.16 0.16 - 0.3 0.3 - 0.46 0.46 - 0.61 0.61 - 0.84		7.2D 3.3D 1.8D 1.01D		0.126D 0.081D	0.44 0.20 0.10 0.05	14A 04A 05A 54A		9 18	5B 3B	19 18	18 19	36 55	
0.08 - 0.16 0.16 - 0.3 0.3 - 0.46 0.46 - 0.61 0.61 - 0.84 0.74 - 0.94		7.2D 3.3D 1.8D 1.01D		0.126D 0.081D	0.44 0.20 0.10 0.05	14A 04A 05A 54A		9 18 16	5B 3B 5D	19 18 24	18 19 24	36 55 42	
0.08 - 0.16 0.16 - 0.3 0.3 - 0.46 0.46 - 0.61 0.61 - 0.84 0.74 - 0.94 0.94 - 1.27	COLE	7.2D 3.3D 1.8D 1.01D 0.81D		0.126D 0.081D 0.091D	0 0.44 0.20 0 0.10 0.05 0 0.00	14A 04A 05A 04A 4A Vater Conto		9 18 16 18	5B 3B 5D	19 18 24 26	18 19 24	36 55 42 45	
0.08 - 0.16 0.16 - 0.3 0.3 - 0.46 0.46 - 0.61 0.61 - 0.84 0.74 - 0.94 0.94 - 1.27 1.78 - 1.83	COLE	7.2D 3.3D 1.8D 1.01D		0.126D 0.081D 0.091D vimetric/Vo 0.1 Bar	0.44 0.20 0.10 0.05 0.00	14A 04A 05A 64A 4A Vater Conte 1 Bar		9 18 16	5B 3B 5D 3B K sa	19 18 24 26	18 19 24 22 K unsat	36 55 42 45	
0.08 - 0.16 0.16 - 0.3 0.3 - 0.46 0.46 - 0.61 0.61 - 0.84 0.74 - 0.94 0.94 - 1.27 1.78 - 1.83	COLE	7.2D 3.3D 1.8D 1.01D 0.81D		0.126D 0.081D 0.091D vimetric/Vo 0.1 Bar	0 0.44 0.20 0 0.10 0.05 0 0.00	14A 04A 05A 64A 4A Vater Conte 1 Bar		9 18 16 18	5B 3B 5D 3B	19 18 24 26	18 19 24 22	36 55 42 45	
0.08 - 0.16 0.16 - 0.3 0.3 - 0.46 0.46 - 0.61 0.61 - 0.84 0.74 - 0.94 0.94 - 1.27 1.78 - 1.83	COLE	7.2D 3.3D 1.8D 1.01D 0.81D		0.126D 0.081D 0.091D vimetric/Vo 0.1 Bar	0.44 0.20 0.10 0.05 0.00	14A 04A 05A 64A 4A Vater Conte 1 Bar		9 18 16 18	5B 3B 5D 3B K sa	19 18 24 26	18 19 24 22 K unsat	36 55 42 45	

0.08 - 0.16 0.16 - 0.3 0.3 - 0.46 0.46 - 0.61 0.61 - 0.84 0.74 - 0.94 0.94 - 1.27 1.78 - 1.83

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Laboratory Analyses Completed for this profile

12_HCL_FE Total element - Fe(%) - Total acid(HCI) extractable Fe

13C1_FE Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon

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 15E1_MG 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 Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0 15G1_H Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) 15J_H

2_LOI Loss on Ignition (%) 2A1 Air-dry moisture content 3A1 EC of 1:5 soil/water extract pH of 1:5 soil/water suspension 4A1

5A2 Chloride - 1:5 soil/water extract, automated colour

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl , automated colour 7A2

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

P10_GRAV Gravel (%)

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

P10_PB_Z P10A1_C Silt (%) - Plummet balance Clay (%) - Pipette

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

XRD_C_Gb Gibbsite - X-Ray Diffraction XRD_C_Hm XRD_C_Ka Hematite - X-Ray Diffraction Kaolin - X-Ray Diffraction Quartz - X-Ray Diffraction XRD_C_Qz