

Project Name: DER
Project Code: DER **Site ID:** H245 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	Roadside quarry about 4.6M deep near summit of Mt.Rumney on property "Actn"
Date Desc.:	09/05/62	Elevation:	145 metres
Map Ref.:		Rainfall:	550
Northing/Long.:	147.45	Runoff:	Rapid
Easting/Lat.:	-42.8625	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Dolerite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	31.5 %	Aspect:	45 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol		Principal Profile Form:	Gn3.13
ASC Confidence:		Great Soil Group:	Non-calcic brown soil
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - Eucalyptus viminalis

Surface Coarse Fragments: 20-50%, cobbly, 60-200mm, , Dolerite

Profile Morphology

A	0 - 0.05 m	Dark reddish brown (5YR2/3-Moist); ; Loam; Weak grade of structure, <2 mm, Granular; Moist; Very weak consistence; 2-10%, cobbly, 60-200mm, Dolerite, coarse fragments; Abundant, fine (1-2mm) roots; Clear, Smooth change to -
A	0.05 - 0.15 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Weak grade of structure, <2 mm, Granular; Moist; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, Dolerite, coarse fragments; Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B	0.15 - 0.29 m	Dark reddish brown (5YR3/3-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very strong consistence; 0-2%, medium gravelly, 6-20mm, Dolerite, coarse fragments; Few, coarse (>5mm) roots; Diffuse change to -
B	0.19 - 0.41 m	Dark reddish brown (5YR3/3-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Prismatic; Dry; Rigid consistence; 10-20%, medium gravelly, 6-20mm, Dolerite, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
BC	0.41 - 0.56 m	Dark reddish brown (5YR3/3-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Prismatic; Dry; Rigid consistence; 20-50%, medium gravelly, 6-20mm, Dolerite, coarse fragments; Few, fine (1-2mm) roots; Diffuse change to -
BC	0.56 - 0.71 m	Dark reddish brown (5YR3/3-Moist); , 5YR58; , 7.5YR58; Heavy clay; Massive grade of structure; Dry; Very strong consistence; 10-20%, cobbly, 60-200mm, rounded, Dolerite, coarse fragments; FewDiffuse change to -
C	0.71 - 0.91 m	Dark reddish brown (5YR3/3-Moist); , 5YR58; , 5YR81; Massive grade of structure; Moderately moist; Very firm consistence; 20-50%, cobbly, 60-200mm, rounded, Dolerite, coarse fragments;

Morphological Notes

Observation Notes

56-71CM CLAY WITH GRITTY DECOMPOSED DR:71-91CM DECOMPOSED DR WITH GRITTY CLAY:

Site Notes

HOBART

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				CMol (+)/kg				%
0 - 0.05	6A	0.068A	13.4H	3.6	2.1	0.31	9.5H		36.6B	
0.05 - 0.15	6.4A	0.054A	13.5H	3.9	2	0.33	17.2E		34.2B	
							8.3H			
0.15 - 0.29	6.8A	0.048A	15.4H	5.9	1.8	0.3	14.5E		31B	
							3.1H			
0.19 - 0.41	7.2A	0.048A	15.7H	7	2	0.34	7.6E		31.3B	
0.41 - 0.56	7.5A	0.039A	15.9H	7.7	2	0.36	6.3E		30.8B	
0.56 - 0.71	7.8A	0.033A	13.4H	6.8	1.4	0.34	4.8E		25.6B	
0.71 - 0.91	8.1A	0.021A	11.6H	8	0.46	0.42	3.7E			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
								GV	CS		FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		5.06D		0.032D	0.396A			10	15B	36	18	22
0.05 - 0.15		3.36D		0.028D	0.292A			9	16B	37	20	21
0.15 - 0.29		1.94D		0.016D	0.158A			3	11D	34	16	37
0.19 - 0.41		1.48D			0.126A			9	12D	27	15	45
0.41 - 0.56								4	19D	25	15	40
0.56 - 0.71								17	31B	24	17	25
0.71 - 0.91								20	44B	24	16	15

[illegible]

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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 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
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