

Project Name: SOR
Project Code: SOR Site ID: H129 Observation ID: 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	3.2KM west of Ross 80M north of Ross/Auburn
Date Desc.:	22/11/55	Elevation:	244 metres
Map Ref.:		Rainfall:	490
Northing/Long.:	147.453888888889	Runoff:	Rapid
Easting/Lat.:	-42.0261111111111	Drainage:	Moderately well drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Soil pit, 0.4 m deep, Dolerite

Land Form

Rel/Slope Class:	Rolling low hills 30-90m 10-	Pattern Type:	Low hills
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	26.8 %	Aspect:	135 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Eutrophic Red Dermosol	Principal Profile Form:	Dr2.12
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, 0.51-1m, Mid-dense. *Species includes - None recorded

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.06 m	Brown (7.5YR4/3-Moist); ; Loam; Weak grade of structure, <2 mm, Granular; Very weak consistence; 10-20%, cobbly, 60-200mm, angular, Dolerite, coarse fragments; Many Sharp change to -
0.06 - 0.14 m	Dark brown (7.5YR3/2-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Very firm consistence; 10-20%, cobbly, 60-200mm, angular, Dolerite, coarse fragments; Sharp change to -
0.18 - 0.3 m	Dark reddish brown (5YR3/4-Moist); ; Heavy clay; Strong grade of structure, <2 mm, Angular blocky; Weak consistence; 10-20%, cobbly, 60-200mm, angular, Dolerite, coarse fragments; Sharp change to -

Morphological Notes

Broken lightly weathered dolerite with clay down cracks:

Observation Notes

Site Notes

INTERLAKEN

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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 - 0.06	6.1A		18H	4.6	0.88	0.2	4.3H 9.1E		32.8B	
0.06 - 0.14	6.6A									
0.18 - 0.3	6.8A		26.6H	21.2	0.81	0.52	3.1H 9.3E		58.3B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.06		2.8D		0.021D	0.263A				7B	46	13	27
0.06 - 0.14		1.9D		0.016D	0.194A				7B	43	12	33
0.18 - 0.3		1.79D			0.187A				2D	12	8	72

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	mm/h	mm/h
			g/g - m3/m3		
0 - 0.06					
0.06 - 0.14					
0.18 - 0.3					

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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
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_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	Geothite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_St	Smectite - X-Ray Diffraction