Project Name: SOR
Project Code: SOR **Site ID:** H81 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	**Locality:**	
Date Desc.:	29/01/54	**Elevation:**	213 metres
Map Ref.:	Sheet No. : 8412 1:100000	**Rainfall:**	640
Northing/Long.:	147.633333333333	**Runoff:**	Rapid
Easting/Lat.:	-42.7666666666667	**Drainage:**	Well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Soil pit, 0.47 m deep,Basalt

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Hills
Morph. Type:	Ridge	**Relief:**	No Data
Elem. Type:	Hillcrest	**Slope Category:**	Very gently sloped
Slope:	4.5 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Red Ferrosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dr2.12
Great Soil Group: Prairie soil

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; , Granular; Moderately moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions; ManyDiffuse change to -
A	0.05 - 0.13 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; , Granular; Moderately moist; Weak consistence; 10-20%, cobbly, 60-200mm, Basalt, coarse fragments; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions; Sharp change to -
B	0.13 - 0.18 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; , Granular; Moderately moist; Weak consistence; 10-20%, Basalt, coarse fragments; Few (2 - 10 %), Ferruginous, , Concretions; Diffuse change to -
B	0.18 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; , Granular; Dry; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to -
BC	0.3 - 0.41 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; , Granular; Dry; Very firm consistence; 50-90%, Basalt, coarse fragments; Few (2 - 10 %), Ferromanganiferous, , Concretions;

Morphological Notes

Observation Notes

30-41CM SAMPLES TAKEN FROM BETWEEN CRACKS IN ROCKS:STONELEIGH SERIES:

Site Notes

PEMBROKE

Project Name: SOR
Project Code: SOR **Site ID:** H81 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.05	6.7A		18.9H	11.2	0.31	0.9	8.2H		50B	
							18.8E			
0.05 - 0.13	6.6A		17.1H	9.5	0.16	0.82	7.4H		43.8B	
							16.2E			
0.13 - 0.18	6.9A							32.5C		
0.18 - 0.3	7.3A		15.9H	14.4	0.13	1.1	12.7E		46.2B	
0.3 - 0.41	7.3A									

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 - 0.05		3.8D		0.172D	0.41A			23	5D	24	33	27
0.05 - 0.13		3.5D		0.132D	0.37A			18	3B	21	30	32
0.13 - 0.18		2.4D			0.28A							
0.18 - 0.3		1.5D		0.113D				16	4D	22	27	43
0.3 - 0.41												

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 - 0.05									
0.05 - 0.13									
0.13 - 0.18									
0.18 - 0.3									
0.3 - 0.41									

Project Name: SOR
Project Code: SOR **Site ID:** H81 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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
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