

**Project Name:** SOR  
**Project Code:** SOR      **Site ID:** H213      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	Graley, A	<b>Locality:</b>	Property "Annandale": 12CH S of a track running NE from the Tunbridge/Interlaken Rd (opp. Annandale t <sup>o</sup> off):
<b>Date Desc.:</b>	29/03/61	<b>Elevation:</b>	271 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	500
<b>Northing/Long.:</b>	147.316666666667	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-42.116666666667	<b>Drainage:</b>	Imperfectly drained

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	Rolling hills 90-300m 10-32%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mottled Eutrophic Red Chromosol		<b>Principal Profile Form:</b>	Dr3.12
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Non-calcic brown soil
All necessary analytical data are available.			

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - None recorded  
Tall Strata - Tree, . . \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.02 m	Very dark grey (5YR3/1-Moist); ; Loam; Moderate grade of structure, 2-5 mm, Granular; Dry; Very firm consistence; 20-50%, stony, 200-600mm, Dolerite, coarse fragments;
A	0.02 - 0.15 m	Very dark grey (5YR3/1-Moist); ; Loam; Moderate grade of structure, 2-5 mm, Granular; Dry; Very firm consistence; 20-50%, stony, 200-600mm, Dolerite, coarse fragments; Sharp change to -
B	0.25 - 0.41 m	Dark reddish brown (5YR3/4-Moist); , 7.5YR42; Heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 10-20%, stony, 200-600mm, Dolerite, coarse fragments;
B	0.41 - 0.53 m	Dark reddish brown (5YR3/4-Moist); , 7.5YR42; Heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 10-20%, stony, 200-600mm, Dolerite, coarse fragments; Diffuse change to -
BC	0.53 - 0.63 m	Dark brown (10YR3/3-Moist); , 10YR44; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moderately moist; Very firm consistence; 10-20%, stony, 200-600mm, Dolerite, coarse fragments; Clear, Tongued change to -
C	0.63 - 0.81 m	Very pale brown (10YR7/3-Moist); , 10YR68; , 10YR32; Moderately moist; Weak consistence; 10-20%, stony, 200-600mm, Dolerite, coarse fragments;

**Morphological Notes**

**Observation Notes**

25-53CM MANY WORMS:15-25CM NOT QUITE CONTINUOUS LINE OF DOLERITE STONES(<100MM):0-15CM <10% ROCKS (<900MM):

**Site Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.02	5.5A	0.253A	15.3H	4.5		0.18	16H		37.6B
0.02 - 0.15	5.1A	0.104A	10.4H	2.8		0.06	14.6H		29.7B
0.25 - 0.41	6.7A	0.048A							
0.41 - 0.53	7.3A	0.054A	29.8H	15.3		0.14			45.8B
0.53 - 0.63	7.7A	0.057A	27.5H	15.4		0.2			43.5B
0.63 - 0.81	7.3A	0.054A							

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**Laboratory Analyses Completed for this profile**

15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
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
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