

**Project Name:** SOR  
**Project Code:** SOR      **Site ID:** H82      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	J. Loveday	<b>Locality:</b>	.8km N of Sorell
<b>Date Desc.:</b>	29/01/54	<b>Elevation:</b>	91 metres
<b>Map Ref.:</b>	Sheet No. : 8412 1:100000	<b>Rainfall:</b>	560
<b>Northing/Long.:</b>	147.566666666667	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-42.783333333333	<b>Drainage:</b>	Poorly 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>	Basalt

**Land Form**

<b>Rel/Slope Class:</b>	Undulating low hills 30-90m 3-10%	<b>Pattern Type:</b>	Low 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>	8.8 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Cracking

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Endocalcareous Epipedal Black Vertosol	<b>Principal Profile Form:</b>	Ug5.12
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Black earth
All necessary analytical data are available.		

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Medicago sativa

**Surface Coarse Fragments:** 2-10%, , , Basalt

**Profile Morphology**

A	0 - 0.04 m	Black (10YR2/1-Moist); ; Heavy clay; Weak grade of structure, Angular blocky; Moderately moist; Firm consistence; Diffuse change to -
B	0.04 - 0.15 m	Black (10YR2/1-Moist); ; Heavy clay; 100-200 mm, Prismatic; Massive grade of structure; Dry; Rigid consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.15 - 0.28 m	Black (10YR2/1-Moist); ; Heavy clay; , Angular blocky; Massive grade of structure; Dry; Very strong consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.3 - 0.41 m	Very dark grey (10YR3/1-Moist); , 5Y32; Heavy clay; Massive grade of structure; Dry; Strong consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Sharp change to -
BC	0.46 - 0.56 m	Olive grey (5Y5/2-Moist); , N80; Massive grade of structure; Dry; Very firm consistence; 0-2%, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; Diffuse change to -
C	0.63 - 0.76 m	Olive grey (5Y5/2-Moist); , N80; Massive grade of structure; Medium, (5 - 10) mm crack; Dry; Very firm consistence; 20-50%, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations;

**Morphological Notes**

**Observation Notes**

46-76CM COMPACT DECOMPOSED BA WITH LIME COATING BA FRAGMENTS+CA ALONG CRACKS AT BOTTOM OF PIT:>76CM COMPACT W'D BA: SORELL SERIES:

**Site Notes**

PEMBROKE

Project Name: SOR  
Project Code: SOR Site ID: H82 Observation ID: 1  
Agency Name: CSIRO Division of Soils (TAS)

**Laboratory Test Results:**

[illegible][illegible][illegible]

**Project Name:** SOR  
**Project Code:** SOR      **Site ID:** H82      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Laboratory Analyses Completed for this profile**

15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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_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)
19A1	Carbonates - rapid titration
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