

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** C1 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 27/09/05
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Sassafrass
Elevation: 100
Rainfall: 950
Runoff: Slow
Drainage: Well drained

Geology

Exposure Type: Soil pit
Geol. Ref.: Tertairy Basalt
Conf. Sub. is Parent. Mat.: Certain
Substrate Material: Basalt

Land Form

Rel/Slope Class: Undulating low hills 30-90m
Pattern Type: Low hills
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 3 %
Relief: No Data
Slope Category: Very gently sloped
Aspect: 72 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

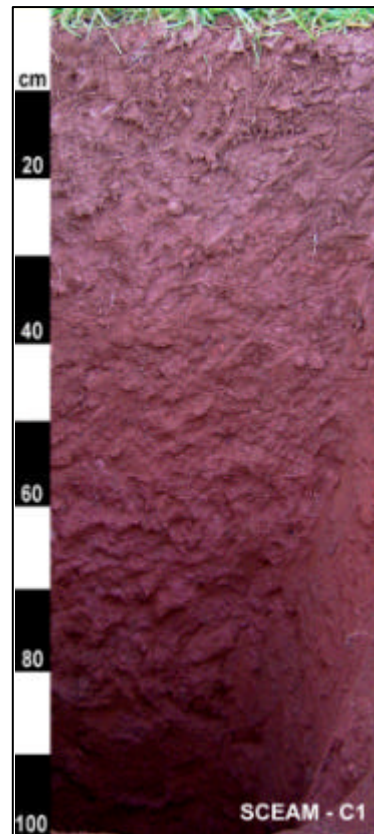
Soil Classification

Australian Soil Classification:
 Haplic Eutrophic Red Ferrosol
 Thick Non-gravelly Clay loamy Clayey Deep
ASC Confidence:
 All analytical data available

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm,



Profile Morphology

Ap	0 - 0.3 m	Reddish brown (5YR5/3-Moist); Clay loam; Strong grade of structure, 5-10 mm, Polyhedral; Strong grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Slightly plastic; Very sticky; Very few (0 - 2 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
B1t	0.3 - 0.45 m	Dark reddish brown (5YR3/4-Moist); Substrate influence, 0-2%, 5-15mm, Distinct, 2.5YR3/6; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Slightly plastic; Very sticky; 0-2%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; Very few (0 - 2 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21t	0.45 - 0.8 m	Dark red (2.5YR3/6-Moist); Mottles, 0-2%, 0-5mm, Faint, 5YR5/3; Substrate influence, 0-2%, 0-5mm, Distinct, 2.5YR3/6; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence; Slightly plastic; Very sticky; Very few (0 - 2 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Gradual, Smooth change to -
B22t	0.8 - 1.1 m	Dark red (2.5YR3/6-Moist); Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence; Slightly plastic; Very sticky;

Chemistry Data

			Organic C%	pH (H2O)	pH (CaCl2)	EC (dS/m)	Exchangeable Bases (meq/100g)				ECEC (meq/100g)	ESP %	Olsen P (mg/kg)	Total N %	Colwell_K (mg/kg)
							Ca	Mg	Na	K					
0	to	75 mm	4.31	5.8	5.0	0.10	10.21	2.49	0.31	1.13	14.39	2.15	73.00	0.36	445
200	to	275 mm	2.75	6.1	5.2	0.04	7.92	1.62	0.17	0.54	10.39	1.64	12.00	0.22	215
300	to	400 mm	1.67	5.9	5.5	0.04	6.31	0.71	0.21	0.13	7.40	2.84	1.90	0.11	53
500	to	800 mm	0.77	5.9	5.7	0.06	5.90	0.54	0.26	0.09	6.81	3.82	1.20	0.08	38
850	to	1100 mm	0.54	5.9	5.7	0.06	5.17	1.16	0.23	0.10	6.68	3.44	1.50	0.07	38