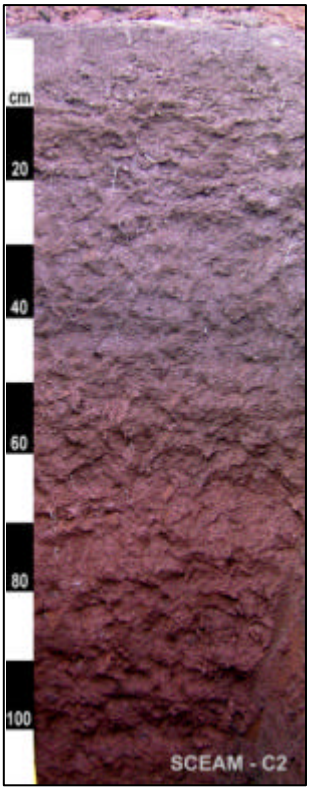
Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** C2 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water



Site Information

Desc. By: R. Moreton
Date Desc.: 07/06/06
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Wesley Vale
Elevation: 103 metres
Rainfall: 828
Runoff: Moderately rapid
Drainage: Well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Tertiary Basalt
Conf. Sub. is Parent. Mat.: certain
Substrate Material: Basalt

Land Form

Rel/Slope Class: Rolling low hills 30-90m 10-32%
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 13 %
Pattern Type: Hills
Relief: No Data
Slope Category: Gently inclined
Aspect: 140 degrees

Surface Soil Condition (dry): Soft

Erosion: No Data

Soil Classification

Australian Soil Classification:
Class Undetermined Class Undetermined Red Ferrosol Thick Non-gravelly Clay-loamy Clay-loamy Giant
ASC Confidence:
No analytical data are available but confidence is fair.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: None

Profile Morphology

A11 0 - 0.07 m (/-Moist); Clay loam; Moderate grade of structure, <2 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; Few, very fine (0-1mm) roots; Clear, Smooth change to

A12 0.07 - 0.3 m (/-Moist); Mottles, 0-2%, 0-5mm, Faint, 5YR3/4; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; Slightly plastic; Normal plasticity; Very sticky; Very few (0 - 2 %), Ferromanganiferous, Nodules, Medium (2 -6 mm) segregations; Few, very fine (0-1mm)

A3 0.3 - 0.48 m (/-Moist); Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Nodules, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots; Clear, Smooth change to -

B1t 0.48 - 0.64 m Dark reddish brown (5YR3/3-Moist); Clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Weak consistence; Gradual, Smooth change to -

B2t 0.64 - 1.1 m Dark reddish brown (5YR3/4-Moist); Clay loam; Moderate grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Weak consistence;

Chemistry Data

				Organic C%	pH (H20)	pH (CaCl2)	EC (dS/m)	Exchangeable Bases (meq/100g) Ca	Mg	Na	K	ECEC (meq/100g)	ESP %	Olsen P (mg/kg)	Total N %	Colwell_K (mg/kg)
C2																
0	to	75	mm	4.15	5.6	4.8	0.09	11.90	2.56	0.21	1.18	16.48	1.27	82.80	0.33	462
200	to	275	mm	4.21	5.8	5.0	0.10	14.40	2.76	0.29	0.88	18.48	1.57	68.40	0.33	372
300	to	480	mm	3.24	5.9	5.2	0.10	18.31	2.11	0.45	0.21	21.19	2.12	16.30	0.30	80
480	to	640	mm	1.17	6.2	5.6	0.16	14.10	2.14	0.57	0.20	17.04	3.35	5.80	0.22	67
640	to	940	mm	0.64	6.2	5.9	0.16	8.80	1.92	0.53	0.17	11.45	4.63	4.90	0.15	58
940	to	110	mm	0.47	6.5	6.1	0.16	7.52	2.22	0.47	0.15	10.39	4.52	3.30	0.11	51