

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
 Project Code: SCEAM Site ID: C11 Observation ID: 1  
 Agency Name: TAS Department of Primary Industries and Water

**Site Information**

Desc. By: R. Moreton  
 Date Desc.: 29/08/05  
 Map Ref.:  
 Northing/Long.:  
 Easting/Lat.:

Locality: Boat Harbour  
 Elevation: 86 metres  
 Rainfall: 1097  
 Runoff: Moderately rapid  
 Drainage: Well drained

**Geology**

Exposure Type: Soil pit  
 Geol. Ref.: Tertiary Basalt

Conf. Sub. is Parent. Mat.: Certain  
 Substrate Material: Basalt

**Land Form**

Rel/Slope Class: Undulating low hills 30-90m  
 3-10%

Pattern Type: Low hills

Morph. Type: Upper-slope  
 Elem. Type: Hillslope  
 Slope: 9 %

Relief: No Data  
 Slope Category: Gently inclined  
 Aspect: 360 degrees

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

**Erosion:** Partial, Minor (sheet)

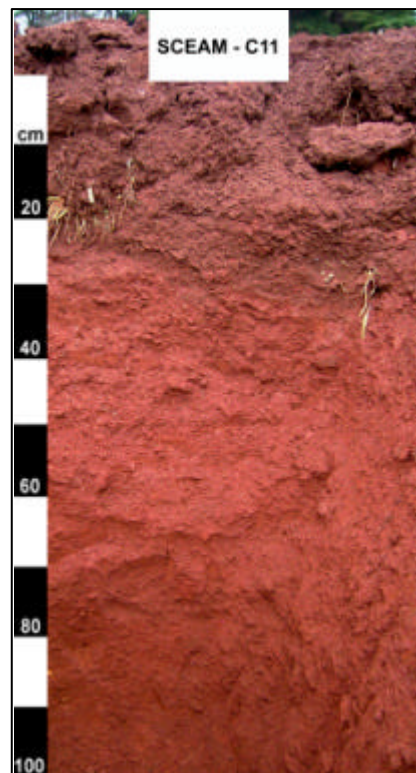
**Soil Classification**

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

**Site Disturbance:** Complete clearing. Pasture.

**Vegetation:**

**Surface Coarse Fragments:** None



**Profile Morphology**

Ap	0 - 0.25 m	Dark reddish brown (5YR3/3-Moist); Clay Loam, Strong grade of structure, 20-50 mm, Platy; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Few, very fine (0-1mm) roots; Clear, Irregular change to -
B1t	0.25 - 0.8 m	Dark reddish brown (5YR3/4-Moist); Mottles, 0-2%, 0-5mm, Faint, 5YR5/6; Light Clay, Strong grade of structure, 50-100 mm, Platy; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Soft segregations, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B2t	0.8 - 1 m	Dark red (2.5YR3/6-Moist); Medium Clay, Substrate influence, 0-2%, 5-15mm, Distinct, 7.5YR4/6; Strong grade of structure, 50-100 mm, Platy; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Basalt, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct;

**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	3.33	5.9	5.2	0.08	9.08	3.07	0.24	0.97	13.56	1.77	0.00	0.33	406
200	to 275 mm	2.19	6.0	5.4	0.07	7.81	2.98	0.28	0.39	11.61	2.41	7.80	0.20	154
250	to 500 mm	0.89	6.3	6.0	0.12	6.62	2.02	0.35	0.11	9.12	3.84	1.90	0.09	41
500	to 800 mm	0.85	6.2	6.1	0.14	6.47	1.83	0.30	0.10	8.72	3.44	2.00	0.08	35
800	to 1000 mm	0.92	6.2	6.1	0.12	5.98	2.15	0.31	0.10	8.56	3.62	2.60	0.08	38