

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** N6 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** R. Moreton  
**Date Desc.:** 02/08/05  
**Map Ref.:**  
**Northing/Long.:**  
**Easting/Lat.:**

**Locality:** Deloraine  
**Elevation:** 293 metres  
**Rainfall:** 1032  
**Runoff:** Moderately rapid  
**Drainage:** Moderately 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:** Lower-slope

**Relief:** No Data

**Elem. Type:** Hillslope

**Slope Category:** Gently inclined

**Slope:** 3 %

**Aspect:** 180 degrees

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

**Erosion:** No Data

**Soil Classification**

**Australian Soil Classification:**  
 Haplic Mesotrophic Red Ferrosol Thick Slightly gravelly  
 Clay-loamy Clayey Deep

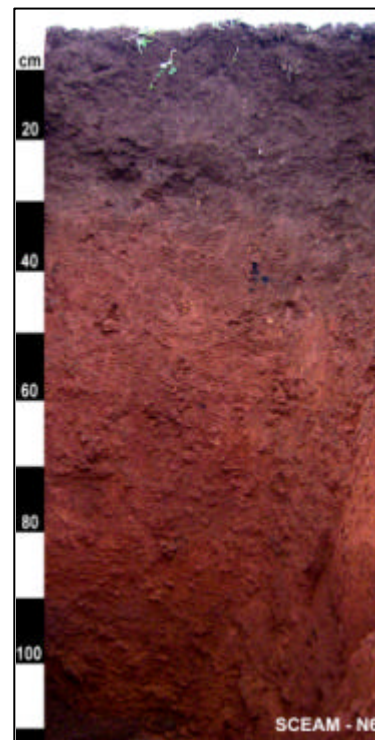
**ASC Confidence:**

All necessary analytical data are available.

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

**Vegetation:**

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm



**Profile Morphology**

A11p	0 - 0.12 m	Very dark brown (7.5YR2/2-Moist); Dark brown (7.5YR3/4-Dry); Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moist; Loose consistence; Slightly plastic; Normal plasticity; Slightly sticky; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear, Smooth change
A12p	0.12 - 0.3 m	Very dark brown (7.5YR2/2-Moist); Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Moderate grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moist; Very weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B1t	0.3 - 0.55 m	Dark reddish brown (2.5YR3/4-Moist); Substrate influence, 0-2%, 0-5mm, Distinct, 5YR4/6; Mottles, 0-2%, 0-5mm, Distinct, 2.5YR4/6; Clay loam; Massive grade of structure; Moderate grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, coarse fragments; Gradual, Smooth change to -
B21t	0.55 - 0.9 m	Dark red (2.5YR3/6-Moist); Substrate influence, 0-2%, 0-5mm, Distinct, 5YR4/6; Mottles, 0-2%, 0-5mm, Distinct, 2.5YR4/6; Medium clay (Light); Massive grade of structure; Moderate grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Moist; Weak consistence; Moderately plastic; Normal plasticity; Very sticky; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, coarse fragments; Gradual, Smooth change to -
B22t	0.9 - 1.12 m	Yellowish red (5YR4/6-Moist); Light clay; Massive grade of structure; Strong grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moist; Weak consistence; Moderately plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, faint

**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						
N6	0	to	75 mm	5.10	6.4	5.7	0.10	14.57	2.95	0.18	1.44	19.14	0.94	27.90	0.45	598
	175	to	250 mm	5.42	6.3	5.6	0.06	14.94	2.85	0.19	0.29	18.27	1.04	24.20	0.52	109
	300	to	550 mm	1.69	5.8	5.7	0.19	9.08	1.65	0.19	0.14	11.12	1.71	4.20	0.16	66
	600	to	900 mm	0.86	6.2	6.0	0.10	6.50	1.10	0.12	0.06	7.82	1.53	3.10	0.08	36
	900	to	1120 mm	0.67	6.5	6.2	0.05	6.69	1.80	0.27	0.07	8.84	3.05	3.10	0.06	27