

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** N13 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** R. Moreton  
**Date Desc.:** 26/07/05  
**Map Ref.:**  
**Northing/Long.:**  
**Easting/Lat.:**  
**Locality:** Epping Forest  
**Elevation:** 158 metres  
**Rainfall:** 557  
**Runoff:** Moderately rapid  
**Drainage:** Imperfectly drained

**Geology**

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

**Land Form**

**Rel/Slope Class:** Gently undulating plains <9m  
 1-3%  
**Morph. Type:** Flat  
**Elem. Type:** Plain  
**Slope:** 0%  
**Pattern Type:** Plain  
**Relief:** No Data  
**Slope Category:** Level  
**Aspect:** 0

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

**Erosion:** No Data

**Soil Classification**

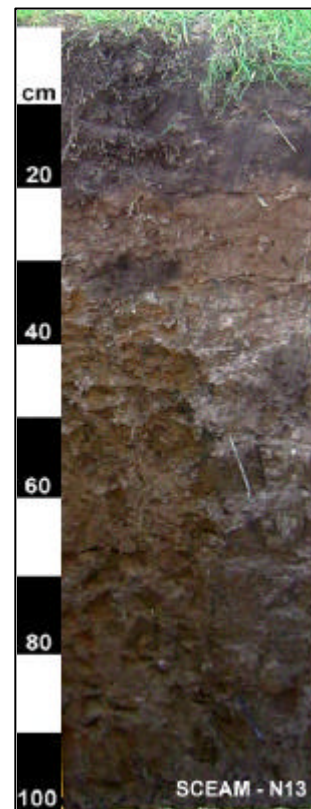
**Australian Soil Classification:**  
 Eutrophic Subnatric Brown Sodosol Medium Non-gravelly  
 Loamy Clayey Deep  
**ASC Confidence:**

All necessary analytical data are available.

**Site Disturbance:** Cultivation. Irrigated, past or present

**Vegetation:**

**Surface Coarse Fragments:** No surface coarse fragments



**Profile Morphology**

Ap	0 - 0.21 m	Very dark brown (10YR2/2-Moist); Sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Weak grade of structure, 2-5 mm, Polyhedral; Sandy (grains prominent) fabric; Common (1-5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moist; Very weak consistence; Non-plastic; Non-sticky; Field pH 6.7 (pH meter); Common, very fine (0-1mm) roots; Abrupt,
A2c	0.21 - 0.37 m	Brown (10YR4/3-Moist); Mottles, 2-10%, 30-mm, Prominent, 10YR3/2; Loamy sand (Light); Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moist; Loose consistence; Non-plastic; Non-sticky; Very many (50 - 100 %), Ferromanganiferous, Nodules, Coarse (6 - 20 mm) segregations; Field pH 6.6 (pH meter); Few, very fine (0-1mm) roots; Sharp, Wavy change to -
B1t	0.37 - 0.57 m	Dark yellowish brown (10YR4/6-Moist); Mottles, 0-2%, 5-15mm, Prominent, 10YR3/2; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Very plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Ferromanganiferous, Nodules, Coarse (6 - 20 mm) segregations; Field pH 6.6 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B21t	0.57 - 0.68 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 2-10%, 15-30mm, Distinct, 7.5YR4/6; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Very plastic; Normal plasticity; Moderately sticky; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Nodules, Medium (2 -6 mm) segregations; Field pH 7.2 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B3	0.68 - 1 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 10-20%, 5-15mm, Prominent, 10YR4/6; Sandy light clay; Massive grade of structure; Earthy fabric; Moist; Strong consistence; Moderately plastic; Normal plasticity; Moderately sticky; Very few (0 - 2 %), Ferromanganiferous, Soft segregations, Medium (2 -6 mm) segregations; Field pH 7.9 (pH meter);

**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						
N13	0	to	75 mm	1.44	6.2	5.4	0.11	3.34	0.64	0.14	0.45	4.65	3.01	72.20	0.12	188
	200	to	275 mm	0.67	5.6	4.7	0.04	1.31	0.64	0.15	0.18	2.59	5.79	17.60	0.04	85
	370	to	570 mm	0.76	6.7	6.1	0.15	6.83	9.36	2.15	0.79	19.17	11.21	1.60	0.10	304
	570	to	680 mm	0.44	7.5	6.6	0.12	4.74	6.81	1.92	0.51	14.00	13.71	1.60	0.06	191
	680	to	950 mm	0.37	8.0	7.1	0.14	4.30	6.72	2.38	0.43	13.85	17.18	1.10	0.05	170