

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
 Project Code: SCEAM Site ID: N42 Observation ID: 1  
 Agency Name: TAS Department of Primary Industries and Water

**Site Information**

Desc. By: R. Moreton  
 Date Desc.: 02/06/06  
 Map Ref.:  
 Northing/Long.:  
 Easting/Lat.:

Locality: Waterhouse  
 Elevation: 24 metres  
 Rainfall: 681  
 Runoff: Very slow  
 Drainage: Imperfectly drained

**Geology**

Exposure Type: Soil pit  
 Geol. Ref.: Ts

Conf. Sub. is Parent. Mat.: No Data  
 Substrate Material: No Data

**Land Form**

Rel/Slope Class: Gently undulating plains <9m  
 1-3%

Pattern Type: Beach ridge plain

Morph. Type: Flat  
 Elem. Type: Plain  
 Slope: %

Relief: No Data  
 Slope Category: Level  
 Aspect: No Data

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

**Erosion:** No Data

**Soil Classification**

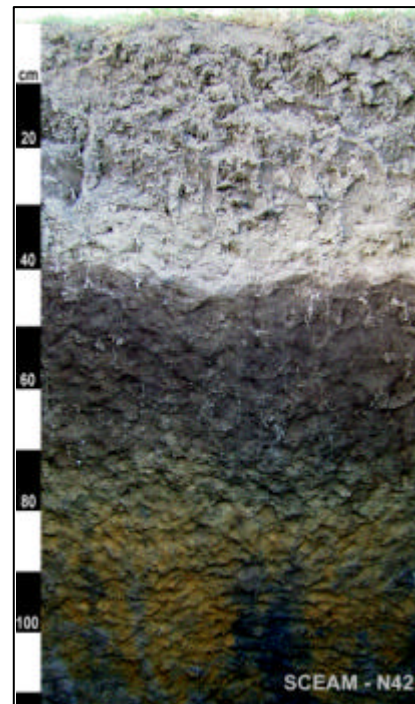
Australian Soil Classification:  
 Fragic Sesquic Semiaquic Podsol Medium  
 Slightly gravelly Loamy Clayey Very deep

**ASC Confidence:**  
 All necessary analytical data are available.

**Site Disturbance:** No effective disturbance

**Vegetation:**

**Surface Coarse Fragments:** None



**Profile Morphology**

- A11 0 - 0.11 m (N2/0-Moist); Sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Moderately moist; Very weak consistence; Non-plastic; Normal plasticity; Non-sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Abundant, very fine (0-1mm) roots; Abrupt, Irregular change to -
- A12 0.11 - 0.26 m (N3/0-Moist); Sandy loam; Weak grade of structure, 50-100 mm, Subangular blocky; Weak grade of structure, 5-10 mm, Subangular blocky; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Non-plastic; Normal plasticity; Non-sticky; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Abundant, very fine (0-1mm) roots; Gradual, Wavy change to -
- A2 0.26 - 0.4 m (N6/0-Moist); Loamy coarse sand; Weak grade of structure, 10-20 mm, Polyhedral; Single grain grade of structure, <2 mm; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Non-plastic; Normal plasticity; Non-sticky; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Many, very fine (0-1mm) roots; Clear, Wavy
- Bs 0.4 - 0.68 m Dark brown (7.5YR3/3-Moist); Mottles, 2-10%, 5-15mm, Faint, 7.5YR3/2; Sandy clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Weak grade of structure, <2 mm, Granular; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Normal plasticity; Non-sticky; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Soft segregations, Coarse (6 - 20 mm) segregations; Many, very fine (0-1mm) roots; Clear, Wavy change to -
- B1 0.68 - 0.84 m Yellowish brown (10YR5/4-Moist); Mottles, 2-10%, 5-15mm, Faint, 10YR2/2; Clayey sand; Weak grade of structure, 2-5 mm, Polyhedral; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Normal plasticity; Non-sticky; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Abrupt, Wavy change to -
- B2t 0.84 - 1.25 m Mottles, 20-50%, 15-30mm, Prominent, 10YR6/8; Mottles, 2-10%, 30-mm, Prominent, 10YR2/1; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Weak grade of structure, 2-5 mm, Granular; Rough-ped fabric; Moderately moist; Weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; 20-50%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments;

**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					
N42 0 to 75 mm	5.08	5.6	4.8	0.09	7.21	1.76	0.29	0.27	9.67	3.00	19.70	0.40	121
225 to 300 mm	0.70	5.8	4.8	0.05	1.19	0.38	0.18	0.06	1.98	9.09	7.60	0.03	30
420 to 650 mm	0.48	6.3	5.4	0.15	1.44	1.23	0.75	0.06	3.58	20.95	1.40	0.03	26
900 to 1050 mm	0.17	7.5	6.6	0.13	0.63	2.19	0.81	0.06	3.70	21.89	1.80	0.02	30