

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N43 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 09/06/06
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Near Bridport
Elevation: 19 metres
Rainfall: 643
Runoff: Very slow
Drainage: Imperfectly drained

Geology

Exposure Type: Soil pit
Geol. Ref.: Qa

Conf. Sub. is Parent. Mat.: Not parent material
Substrate Material: Granite

Land Form

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

Pattern Type: Sand plain

Morph. Type: Flat
Elem. Type: Swale
Slope: 1 %

Relief: No Data
Slope Category: Level
Aspect: 352 degrees

Surface Soil Condition (dry): Soft

Erosion: No Data

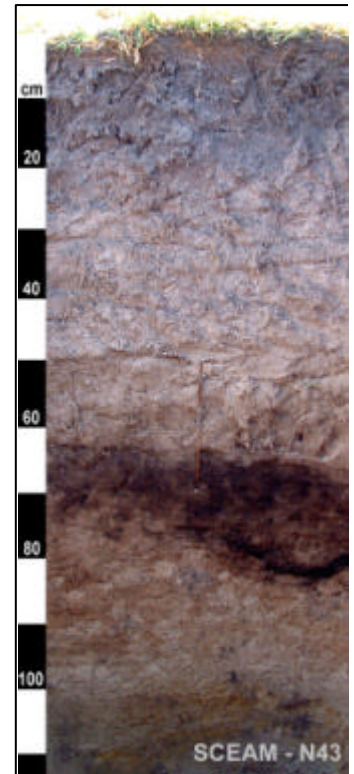
Soil Classification

Australian Soil Classification:
 Parapanic Sesquic Semiaquic Podosol
 Medium Non-gravelly Loamy Sandy Very deep
ASC Confidence:
 Reasonable Confidence.

Site Disturbance: No effective disturbance

Vegetation:

Surface Coarse Fragments: None



Profile Morphology

O	0 - 0.03 m	Organic Layer; Very dark brown (10YR2/2-Moist); Sandy loam; Weak grade of structure, 2-5 mm, Polyhedral; Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Non-plastic; Non-sticky; Many, very fine (0-1mm) roots; Abrupt, Smooth change to -
A1	0.03 - 0.15 m	Very dark grey (10YR3/1-Moist); Loamy sand; Weak grade of structure, 2-5 mm, Polyhedral; Single grain grade of structure; Sandy (grains prominent) fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Non-plastic; Non-sticky; Common, very fine (0-1mm) roots; Clear, Wavy change to -
A21	0.15 - 0.25 m	Greyish brown (10YR5/2-Moist); Mottles, 2-10%, 0-5mm, Faint, 10YR4/2; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Loose consistence; Non-plastic; Non-sticky; Common, fine (1-2mm) roots; Gradual, Broken change to -
A22	0.25 - 0.6 m	Greyish brown (10YR5/2-Moist); Mottles, 2-10%, 0-5mm, Faint, 10YR4/2; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; Non-plastic; Non-sticky; Few, very fine (0-1mm) roots; Clear, Smooth change
B1s	0.6 - 0.8 m	(/-Moist); Substrate influence, 10-20%, 30-mm, Distinct, 10YR3/2; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Strong consistence; Non-plastic; Non-sticky; Ortstein, Strongly cemented, Continuous, Massive; Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
2B21	0.8 - 1.15 m	Greyish brown (2.5Y5/3-Moist); Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; Non-plastic; Non-sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Gradual, Wavy change to -
2B22	1.15 - 1.25 m	Light brownish grey (2.5Y6/3-Moist); Sand; Single grain grade of structure; Moist; Loose consistence; Non-plastic; Non-sticky;

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					
N43	0	to 75 mm	4.28	6.1	4.9	0.08	9.53	2.69	0.32	0.47	13.11	2.44	8.20	0.47	192
	150	to 225 mm	2.94	5.8	4.5	0.06	6.09	1.07	0.24	0.25	7.74	3.10	3.80	0.20	104
	150	to 250 mm	0.63	6.1	4.7	0.03	1.19	0.21	0.10	0.10	1.67	5.99	1.70	0.04	36
	300	to 600 mm	0.21	6.3	5.4	0.02	0.31	0.08	0.12	0.07	0.63	19.05	1.20	0.02	23
	600	to 800 mm	0.27	5.5	4.3	0.08	1.77	0.72	0.61	0.18	4.71	12.95	5.10	0.09	67
	800	to 110 mm	0.13	6.5	6.1	0.03	0.21	0.20	0.13	0.07	0.77	16.88	0.90	0.02	29
	115	to 125 mm	0.05	7.6	6.8	0.12	0.33	1.11	0.31	0.11	1.93	16.06	0.60	0.02	46