

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S19 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: Susan Tate
Date Desc.: 11/05/06
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: near Bushy Park
Elevation: 100 metres
Rainfall: 563
Runoff: Slow
Drainage: Well drained

Geology

Exposure Type: Soil pit
Geol. Ref.: Triassic Sandstone
Conf. Sub. is Parent. Mat.: certain
Substrate Material: Sandstone

Land Form

Rel/Slope Class: Undulating low hills 30-90m
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 9 %
Pattern Type: Low hills
Relief: No Data
Slope Category: Gently inclined
Aspect: 336 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:
 Acidic-Sodic Eutrophic Grey Dermosol Medium Slightly
 gravelly Silty Clayey Deep

ASC Confidence:

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Complete clearing.

Vegetation: Pasture

Surface Coarse Fragments: 0-2%, coarse gravelly, 20-60mm



Profile Morphology

A11	0 - 0.17 m	Very dark greyish brown (10YR3/2-Moist); Silty clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Quartz, coarse fragments; Many, very fine (0-1mm) roots; Gradual, Smooth change to -
A12	0.17 - 0.27 m	Brown (10YR4/3-Moist); Fine sandy clay loam; Moderate grade of structure, 10-20 mm, Platy; Moderate grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Sandstone, coarse fragments; Common, very fine (0-1mm) roots; Clear, Wavy change to -
B2t	0.27 - 0.48 m	Dark greyish brown (10YR4/2-Moist); Mottles, 2-10%, 5-15mm, Faint, 10YR4/4; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Earthy fabric; macropores, Moderately moist; Weak consistence; Moderately plastic; Normal plasticity; Very sticky; Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B3t	0.48 - 0.75 m	Dark greyish brown (2.5Y4/2-Moist); Mottles, 20-50%, 5-15mm, Distinct, 10YR4/6; Mottles, 2-10%, 15-30mm, Distinct, 2.5Y3/1; Medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Earthy fabric; Moderately moist; Firm consistence; Very plastic; Normal plasticity; Moderately sticky; Clear, Smooth change to -
BC	0.75 - 0.9 m	Massive grade of structure; Moderately moist;

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						
S19	0	to	75 mm	1.89	6.5	5.6	0.11	9.27	6.17	0.62	0.70	16.80	3.69	45.10	0.19	293
	200	to	275 mm	1.24	6.3	5.3	0.09	9.22	8.46	0.94	0.55	19.22	4.89	8.60	0.11	233
	290	to	430 mm	1.04	5.8	4.8	0.12	10.47	9.25	1.40	0.49	22.25	6.29	3.80	0.09	227
	500	to	680 mm	0.93	6.7	5.6	0.16	11.85	13.09	2.05	0.61	27.63	7.42	2.90	0.08	270
	780	to	820 mm	0.35	7.6	6.4	0.11	8.41	9.50	1.71	0.39	20.06	8.52	2.20	0.04	212