

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
 Project Code: SCEAM Site ID: S11 Observation ID: 1
 Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: Susan Tate
 Date Desc.: 09/05/05
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:

Locality: Near Richmond
 Elevation: 120 metres
 Rainfall: 553
 Runoff: No Data
 Drainage: No Data

Geology

Exposure Type: Soil pit
 Geol. Ref.: Qa

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

Land Form

Rel/Slope Class: Rolling rises 9-30m 10-32%
 Morph. Type: Lower-slope
 Elem. Type: Footslope
 Slope: 4 %

Pattern Type: Low hills
 Relief: No Data
 Slope Category: Gently inclined
 Aspect: 27 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:
 Eutrophic Mottled-Mesonatric Brown Sodosol Thick
 Non-gravelly Sandy Clayey Deep
ASC Confidence:
 reasonable confidence.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation: Pasture/ crop

Surface Coarse Fragments: None



Profile Morphology

A11	0 - 0.1 m	(/-Moist); Loamy sand; Weak grade of structure, 10-20 mm, Subangular blocky; Weak grade of structure, 2-5 mm, Subangular blocky; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; Non-plastic; Non-sticky; Field pH 7.4 (pH meter); Common, very fine (0-1mm) roots; Clear, Wavy
A12	0.1 - 0.19 m	(/-Moist); Mottles, 0-2%, 0-5mm, Faint, 10YR7/1; Sandy loam; Weak grade of structure, 2-5 mm, Subangular blocky; Single grain grade of structure; Sandy (grains prominent) fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Non-plastic; Non-sticky; Field pH 7.1 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Irregular change
A2	0.19 - 0.37 m	Light grey (10YR7/1-Moist); Mottles, 10-20%, 5-15mm, Distinct; Mottles, 2-10%, 0-5mm, Faint, 5YR4/4; Sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Non-plastic; Non-sticky; Field pH 6.9 (pH meter); Common, very fine (0-1mm) roots; Sharp, Smooth change to -
B1t	0.37 - 0.45 m	Dark reddish brown (5YR3/3-Moist); Mottles, 2-10%, 5-15mm, Faint, 5YR4/4; Substrate influence, 2-10%, 0-5mm, Distinct, 10YR3/6; Light medium clay; Massive grade of structure; Very coarse, (20 - 50) mm crack; Dry; Strong consistence; Slightly plastic; Subplastic; Moderately sticky; 10-20%, fine gravelly, 2-6mm, rounded, dispersed, Sandstone, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Ferruginous, Soft segregations, Fine (0 - 2 mm) segregations; Field pH 7.6 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B2t	0.45 - 0.85 m	Yellowish brown (10YR5/6-Moist); Mottles, 2-10%, 5-15mm, Distinct, 5YR3/3; Substrate influence, 0-2%, 0-5mm, Distinct, 10R3/6; Medium heavy clay; Massive grade of structure; Extremely coarse, (50 - 100) mm crack; Moderately moist; Strong consistence; Moderately plastic; Subplastic; Moderately sticky; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Sandstone, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Ferruginous, Soft segregations, Fine (0 - 2 mm) segregations; Field pH 8.2 (pH meter); Few, very fine (0-1mm) roots;

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					
S11	0	to 75 mm	2.03	6.5	5.8	0.13	6.23	1.43	0.37	0.22	8.33	4.44	42.10	0.17	94
	200	to 275 mm	1.42	6.0	5.2	0.09	4.98	1.88	0.45	0.28	7.79	5.78	12.70	0.09	141
	370	to 450 mm	0.82	7.9	6.7	0.21	6.61	10.50	2.32	0.27	19.85	11.69	1.30	0.09	96
	600	to 800 mm	0.25	7.4	7.2	0.25	5.32	11.75	3.60	0.36	21.13	17.04	1.10	0.04	139