

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
 Project Code: SCEAM Site ID: S23 Observation ID: 1  
 Agency Name: TAS Department of Primary Industries and Water

**Site Information**

Desc. By: R. Moreton  
 Date Desc.: 25/07/05  
 Map Ref.:  
 Northing/Long.:  
 Easting/Lat.:  
 Locality: Tunbridge  
 Elevation: 207 metres  
 Rainfall: 450  
 Runoff: Slow  
 Drainage: Imperfectly drained

**Geology**

Exposure Type: Soil pit  
 Geol. Ref.: Quaternary Terraces  
 Conf. Sub. is Parent. Mat.: Probable  
 Substrate Material: Alluvium

**Land Form**

Rel/Slope Class: Gently undulating plains <9m  
 1-3%  
 Morph. Type: Mid-slope  
 Elem. Type: Terrace flat  
 Slope: 1 %  
 Pattern Type: Alluvial plain  
 Relief: No Data  
 Slope Category: Level  
 Aspect: 0

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

**Erosion:** No Data

**Soil Classification**

**Australian Soil Classification:**  
 Sodic Eutrophic Brown Dermosol Medium Non-gravelly

Loamy Clayey Deep

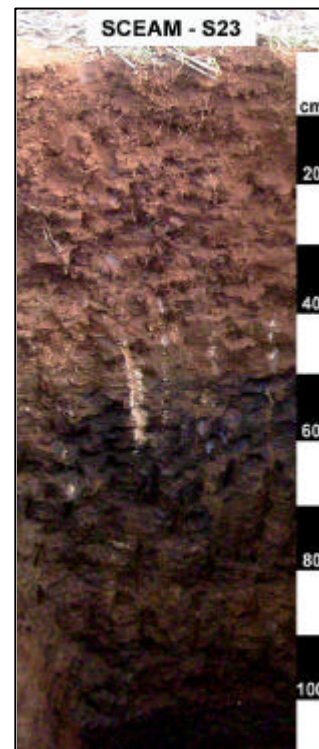
**ASC Confidence:**

All analytic data available

**Site Disturbance:** Cultivated - irrigated

**Vegetation:** Crop

**Surface Coarse Fragments:** None



**Profile Morphology**

1A1	0 - 0.18 m	Dark brown (7.5YR3/4-Moist); Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Non-plastic; Slightly sticky; Field pH 6.1 (pH meter); Few, very fine (0-1mm) roots; Gradual,
1B1	0.18 - 0.4 m	Dark brown (7.5YR3/2-Moist); Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 10-20 mm; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Moderately plastic; Normal plasticity; Very sticky; Field pH 7.3 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
1B2	0.4 - 0.52 m	Dark brown (10YR3/3-Moist); Mottles, 2-10%, 0-5mm, Distinct, 10YR2/1; Light clay; Massive grade of structure; Rough-ped fabric; Dry; Strong consistence; Moderately plastic; Normal plasticity; Very sticky; Few (2 - 10 %), Calcareous, Veins, Coarse (6 - 20 mm) segregations; Field pH 8.9 (pH meter); Abrupt, Smooth change to -
2A1b	0.52 - 0.7 m	Black (2.5Y2/1-Moist); Biological mixing, 2-10%, 0-5mm, Distinct, 7.5YR4/6; Medium clay (Light); Massive grade of structure; Rough-ped fabric; Moderately moist; Strong consistence; Moderately plastic; Normal plasticity; Very sticky; Very few (0 - 2 %), Calcareous, Veins, Coarse (6 - 20 mm) segregations; Field pH 8.7 (pH meter); Gradual, Smooth change to -
2B1b	0.7 - 1 m	Olive brown (2.5Y3/3-Moist); Biological mixing, 2-10%, 0-5mm, Distinct, 7.5YR4/6; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Moderately plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8.6 (pH meter); Abrupt, Smooth change
2B2bg	1 - 1.2 m	Dark grey (2.5Y4/1-Moist); Biological mixing, 2-10%, 0-5mm, Distinct, 7.5YR4/6; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Slightly plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8.2 (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					
0	to	75 mm	1.98	6.7	5.5	0.08	7.05	5.11	1.29	0.37	13.95	9.25	30.80	0.17	152
125	to	200 mm	1.41	7.3	6.0	0.15	7.65	11.18	4.17	0.46	23.57	17.69	8.00	0.13	167
200	to	400 mm	0.64	8.9	8.1	0.58	9.15	19.42	8.77	0.58	37.96	23.10	4.40	0.05	227
400	to	500 mm	0.68	8.7	8.2	0.97	10.90	29.49	15.67	0.70	56.78	27.60	2.00	0.05	276
550	to	700 mm	0.40	8.6	7.8	1.35	6.37	20.18	13.72	0.58	40.87	33.57	8.70	0.03	221
700	to	1000 mm	0.62	8.2	8.0	2.25	9.72	30.61	20.12	1.00	61.47	32.73	7.70	0.05	395