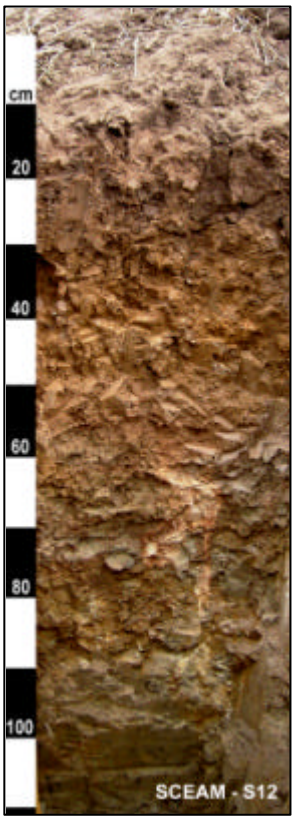
Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S12 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water



Site Information

Desc. By: R. Moreton
Date Desc.: 23/03/06
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Richmond
Elevation: 54 metres
Rainfall: 512
Runoff: Rapid
Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 10 %
Pattern Type: Hills
Relief: No Data
Slope Category: Gently inclined
Aspect: 35 degrees

Surface Soil Condition (dry): Loose

Erosion: No Data

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Subnatric Brown Sodosol Thick Slightly gravelly Clay-loamy Clayey Deep

ASC Confidence:
All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture/ crop

Vegetation:

Surface Coarse Fragments: 2-10%, cobbly, 60-200mm

Profile Morphology

Ap	0 - 0.18 m	Dark brown (10YR3/3-Moist); Brown (10YR5/3-Dry); Mottles, 2-10%, 0-5mm, Faint, 7.5YR4/6; Fine sandy clay loam; Moderate grade of structure, 100-200 mm, Polyhedral; Moderate grade of structure, 100-200 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Slightly plastic; Normal plasticity; Slightly sticky; 2-10%, cobbly, 60-200mm, subrounded, dispersed, Sandstone, coarse fragments; Few, very fine (0-1mm) roots; Clear, Smooth change to -
A21	0.18 - 0.27 m	Dark yellowish brown (10YR3/6-Moist); Dark yellowish brown (10YR3/4-Dry); Mottles, 0-2%, 0-5mm, Prominent, 5YR4/6; Sandy clay loam; Moderate grade of structure, 20-50 mm, Columnar; Earthy fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Medium (2-5mm) macropores, Dry; Very firm consistence; Slightly plastic; Normal plasticity; Slightly sticky; Clear, Smooth change to -
A22	0.27 - 0.45 m	Dark yellowish brown (10YR4/6-Moist); Dark yellowish brown (10YR4/4-Dry); Weak grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Firm consistence; Moderately plastic; Normal plasticity; Moderately sticky; Clear, Smooth change to -
B21t	0.45 - 0.6 m	Yellowish brown (10YR5/4-Moist); Dark yellowish brown (10YR4/4-Dry); Light clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Firm consistence; Very plastic; Normal plasticity; Very sticky; Gradual, Irregular change to -
B22t	0.6 - 0.8 m	Light olive brown (2.5Y5/4-Moist); Olive brown (2.5Y4/4-Dry); Mottles, 10-20%, 5-15mm, Distinct, 5Y6/2; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Firm consistence; Very plastic; Superplastic; Very sticky; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Other, Soft segregations, Very coarse (20 - 60 mm) segregations; Gradual, Smooth change to -
B3t	0.8 - 1.2 m	Dark yellowish brown (10YR4/6-Moist); Yellowish brown (10YR5/6-Dry); Mottles, 10-20%, 0-5mm, Distinct, 2.5Y6/4; Light clay; Massive grade of structure; Earthy fabric; Moderately moist; Very firm consistence; Moderately plastic; Normal plasticity; Very sticky; Few (2 - 10 %), Other, Veins, Very coarse (20 - 60 mm) segregations;

Chemistry Data

				Organic C%	pH (H20)	pH (CaCl2)	EC (dS/m)	Exchangeable Bases (meq/100g) Ca	Mg	Na	K	ECEC (meq/100g)	ESP %	Olsen P (mg/kg)	Total N %	Colwell_P (mg/kg)
S12																
0	to	75	mm	2.11	6.0	5.3	0.07	6.77	7.40	0.34	0.35	15.12	2.25	38.60	0.16	159
200	to	275	mm	1.26	7.2	6.7	0.11	7.65	14.01	1.04	0.29	23.03	4.52	5.90	0.10	127
100	to	200	mm	0.51	8.0	7.1	0.31	3.55	17.80	2.93	0.25	24.55	11.93	2.70	0.09	109
340	to	650	mm	0.44	8.7	7.8	0.47	3.87	23.80	4.78	0.38	32.85	14.55	1.10	0.05	153
650	to	800	mm	0.17	8.7	8.1	0.78	2.57	20.20	5.37	0.46	28.62	18.76	0.40	0.02	216
800	to	1200	mm	0.09	8.6	7.9	0.74	1.58	15.66	5.08	0.48	22.82	22.26	0.90	0.04	259