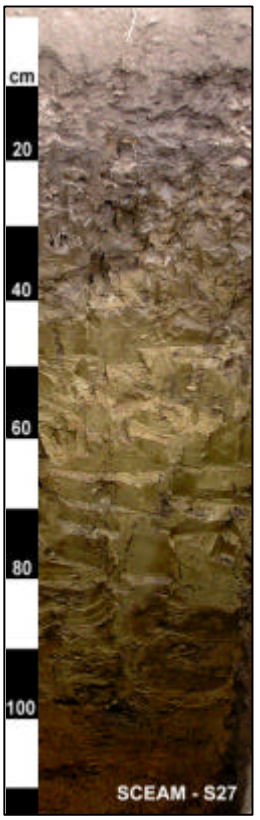
Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S27 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water



Site Information

Desc. By: R. Moreton
Date Desc.: 24/03/06
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Richmond
Elevation: 18 metres
Rainfall: 518
Runoff: Slow
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: No Data
Morph. Type: Lower-slope
Elem. Type: Bench
Slope: 1 %
Pattern Type: Alluvial fan
Relief: No Data
Slope Category: Very gently sloped
Aspect: 270 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:
Sodic Eutrophic Brown Kandosol Medium Non-gravelly Loamy Clayey Deep
ASC Confidence:
All necessary analytical data are available.

Site Disturbance: Complete clearing.

Vegetation: Pasture/ crop

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.16 m	Very dark grey (10YR3/1-Moist); Greyish brown (10YR5/2-Dry); Fine sandy clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; Non-plastic; Slightly sticky; Many, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.16 - 0.3 m	Very dark grey (10YR3/1-Moist); Mottles, 2-10%, 0-5mm, Distinct, 10YR4/3; Light medium clay; Strong grade of structure, 20-50 mm, Columnar; Smooth-ped fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Strong consistence; Very plastic; Normal plasticity; Moderately sticky; Many, fine (1-2mm) roots; Clear, Wavy change to -
B1t	0.3 - 0.44 m	Very dark greyish brown (2.5Y3/2-Moist); Mottles, 2-10%, 0-5mm, Faint, 2.5Y4/4; Light medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Very plastic; Normal plasticity; Very sticky; Few, fine (1-2mm) roots; Gradual, Smooth change to -
B2t	0.44 - 0.8 m	Dark greyish brown (2.5Y4/3-Moist); Light medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; Very plastic; Normal plasticity; Very sticky; Gradual, Smooth change to -
2B1b	0.8 - 0.93 m	Olive brown (2.5Y4/4-Moist); Mottles, 0-2%, 0-5mm, Distinct, 5YR4/4; Sandy light medium clay; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Very plastic; Normal plasticity; Very sticky; Many (20 - 50 %), Manganiferous, Soft segregations, Medium (2 -6 mm) segregations; Clear, Smooth change to -
2B2b	0.93 - 1.2 m	Yellowish brown (10YR5/4-Moist); Mottles, 20-50%, 5-15mm, Distinct, 10YR4/6; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Non-sticky;

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_K (mg/kg)
S27																
0	to	75	mm	1.87	6.6	5.9	0.07	8.33	2.94	0.28	0.20	12.05	2.32	49.90	0.14	95
200	to	275	mm	0.90	6.5	5.4	0.09	8.31	7.99	1.27	0.21	18.00	7.06	7.80	0.06	73
300	to	400	mm	0.52	8.0	6.8	0.10	10.90	15.41	2.69	0.33	29.35	9.17	1.70	0.05	137
450	to	800	mm	0.17	9.0	7.7	0.21	10.95	16.90	4.32	0.41	32.60	13.25	0.90	0.03	164
800	to	900	mm	0.10	9.0	7.8	0.23	9.14	15.73	4.65	0.47	30.01	15.49	0.90	0.03	192
950	to	1200	mm	0.09	9.1	7.9	0.10	3.64	6.05	1.68	0.23	11.62	14.46	0.60	0.03	86