

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
 Project Code: SCEAM Site ID: C28 Observation ID: 1
 Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: D.B. Kidd
 Date Desc.: 01/08/05
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:

Locality: Near Railton
 Elevation: 48 metres
 Rainfall: 996
 Runoff: Very slow
 Drainage: Well drained

Geology

Exposure Type: Soil pit
 Geol. Ref.: Quaternary Gravels (Basalt)

Conf. Sub. is Parent. Mat.: Probable
 Substrate Material: Gravels

Land Form

Rel/Slope Class: Undulating low hills 30-90m
 3-10%

Pattern Type: Low hills

Morph. Type: Flat
 Elem. Type: Footslope
 Slope: 2 %

Relief: No Data
 Slope Category: Level
 Aspect: 3 Degrees

Surface Soil Condition (dry): Soft

Erosion: No Data

Soil Classification

Australian Soil Classification:
 Haplic Mesotrophic Brown Ferrosol
 Medium Moderately Gravelly Clay Loamy
 Clayey Deep

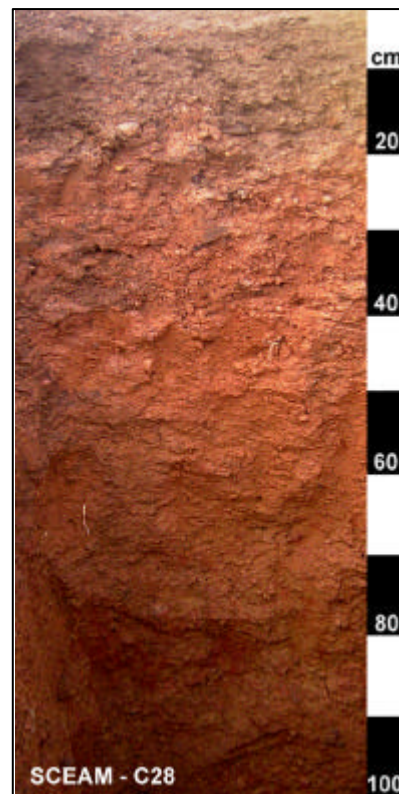
ASC Confidence:

All analytical data available

Site Disturbance: Highly disturbed

Vegetation: Plantation

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



Profile Morphology

Ap	0 - 0.19 m	Very dark greyish brown (10YR3/2-Moist); Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; 20-50%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear, Smooth change to -
B21t	0.19 - 0.4 m	Yellowish red (5YR4/6-Moist); Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Very plastic; Superplastic; Moderately sticky; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Gradual, Smooth change to -
B22t	0.4 - 0.65 m	Strong brown (7.5YR4/6-Moist); Biological mixing, 2-10%, 5-15mm, Faint, 5YR5/6; Light clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Moderately plastic; Normal plasticity; Moderately sticky; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Gradual, Smooth change to -
B3t	0.65 - 1 m	Dark yellowish brown (10YR4/6-Moist); Biological mixing, 10-20%, 15-30mm, Distinct, 5YR4/6; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Gradual, Smooth change to -
BC	1 - 1.1 m	Fine, (0 - 5) mm crack; Moist;

Chemistry Data

28

			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	3.39	6.0	5.2	0.05	11.02	1.05	0.13	0.36	12.82	1.01	3.80	0.18	130
150	to	225 mm	2.91	6.3	5.3	0.05	10.25	0.99	0.13	0.38	11.89	1.09	1.90	0.16	149
400	to	650 mm	0.51	6.2	5.8	0.04	3.58	0.43	0.06	0.23	4.32	1.39	1.20	0.05	84
650	to	850 mm	0.41	6.1	5.7	0.03	3.57	0.62	0.08	0.17	4.51	1.78	1.00	0.05	75