

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
 Project Code: SCEAM Site ID: C12 Observation ID: 1
 Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
 Date Desc.: 10/10/05
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:
 Locality: Spalford
 Elevation: 172 metres
 Rainfall: 1143
 Runoff: Rapid
 Drainage: Well drained

Geology

Exposure Type: Soil pit
 Geol. Ref.: Tertiary Basalt
 Conf. Sub. is Parent. Mat.: Certain
 Substrate Material: Basalt

Land Form

Rel/Slope Class: Rolling low hills 30-90m
 Morph. Type: Lower-slope
 Elem. Type: Hillslope
 Slope: 14 %
 Pattern Type: Low hills
 Relief: No Data
 Slope Category: Gently inclined
 Aspect: 270 degrees

Surface Soil Condition (dry): Cracking

Erosion: No Data

Soil Classification

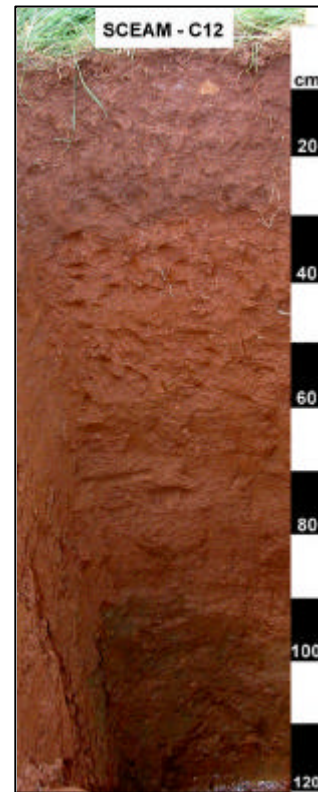
Australian Soil Classification:
 Acidic Eutrophic Red Ferrosol Thick Non-gravelly Clay-loamy
 Clayey Deep

ASC Confidence:
 All necessary analytical data are available.

Site Disturbance:

Vegetation:

Surface Coarse Fragments: None



Profile Morphology

Ap	0 - 0.3 m	Dark reddish brown (5YR3/3-Moist); Mottles, 0-2%, 0-5mm, Distinct, 2.5YR3/6; Clay loam; Strong grade of structure, 50-100 mm, Angular blocky; 10-20 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Very strong consistence; Slightly plastic; Normal plasticity; Very sticky; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Basalt, coarse fragments; Few, very fine (0-1mm) roots; Sharp, Smooth change to -
B1t	0.3 - 0.62 m	Dark reddish brown (2.5YR3/4-Moist); Biological mixing, 0-2%, 0-5mm, Faint, 5YR3/3; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Slightly plastic; Normal plasticity; Moderately sticky; Few (2 - 10 %), Ferromanganiferous, , Fine (0 - 2 mm) segregations; Few, very fine (0-1mm) roots; Gradual, Wavy change to -
B2t	0.62 - 0.96 m	Dark reddish brown (5YR3/4-Moist); Light clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; Few (2 - 10 %), Ferromanganiferous, , Fine (0 - 2 mm) segregations; Gradual, Wavy change to -
BCR	0.96 - 1.2 m	Strong brown (7.5YR4/6-Moist); Substrate influence, 10-20%, 15-30mm, Prominent, 10R4/8; Substrate influence, 10-20%, 5-15mm, Prominent, 2.5YR3/6; Clay loam; Massive grade of structure; Wet; Weak consistence; Slightly plastic; Normal plasticity; Moderately sticky; Common (10 - 20 %), Unidentified, , Fine (0 - 2 mm) segregations;

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	3.38	6.2	5.5	0.07	14.32	2.84	0.16	0.77	18.27	0.88	48.10	0.25	294
200	to	275 mm	2.92	6.3	5.5	0.05	13.46	2.32	0.13	0.45	16.50	0.79	28.10	0.23	193
300	to	600 mm	0.95	4.9	4.2	0.06	6.42	1.48	0.14	0.14	10.78	1.30	0.60	0.14	46
650	to	900 mm	0.55	4.8	4.2	0.06	3.24	1.37	0.11	0.10	13.35	0.82	0.50	0.11	30
1000	to	1200 mm	0.51	4.5	4.1	0.09	2.43	1.41	0.15	0.12	16.38	0.92	0.30	0.11	45