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

ExposureType: 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 100mm2) 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 100mm2) 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 (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)
12															
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