Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** C8 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: D.B. Kidd
Date Desc.: 25/08/05
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Near upper Barrington
Elevation: 246 metres
Rainfall: 1166
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Tertiary Basalt

Conf. Sub. is Parent. Mat.: certain
Substrate Material: Basalt

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 7 %

Pattern Type: Low hills
Relief: No Data
Slope Category: Gently inclined
Aspect: 1 degrees

Surface Soil Condition (dry): Soft

Erosion: Partial, Minor (rill)

Soil Classification

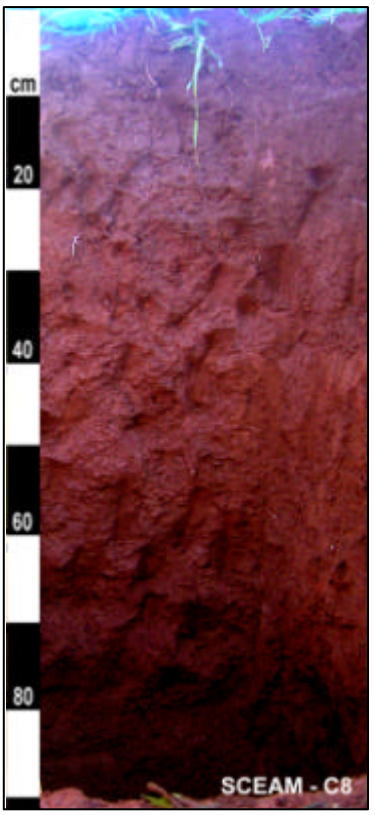
Australian Soil Classification:
Acidic Eutrophic Red Ferrosol Medium Non-gravelly Clay-loamy Clayey Deep

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation: none

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm



Profile Morphology

Ap	0 - 0.17 m	Dark brown (7.5YR3/4-Moist); Clay loam; Weak grade of structure, 20-50 mm, Prismatic; Weak grade of structure, 5-10 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Moderately plastic; Subplastic; Slightly sticky; 0-2%, coarse gravelly, 20-60mm, subrounded, dispersed, Basalt, coarse fragments; Cultivation pan, Weakly cemented, Continuous, Massive; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
AB	0.17 - 0.32 m	Dark reddish brown (5YR3/4-Moist); Light clay; Moderate grade of structure, 20-50 mm, Prismatic; Weak grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Moderately plastic; Subplastic; Slightly sticky; 0-2%, coarse gravelly, 20-60mm, subrounded, dispersed, Basalt, coarse fragments; Cultivation pan, Weakly cemented, Continuous, Massive; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21t	0.32 - 0.6 m	(/-Moist); Light clay; Moderate grade of structure, 20-50 mm, Polyhedral; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Moderately plastic; Subplastic; Moderately sticky; 2-10%, cobbly, 60-200mm, subrounded, dispersed, Basalt, coarse fragments; Very few (0 - 2 %), Ferruginous, Nodules, Fine (0 - 2 mm) segregations; Gradual, Smooth change to -
B22t	0.6 - 1.1 m	(/-Moist); Mottles, 0-2%, 0-5mm, Faint, 2.5YR3/6; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Moderately plastic; Subplastic; Moderately sticky; 2-10%, stony, 200-600mm, subrounded, dispersed, Basalt, coarse fragments; Few (2 - 10 %), Ferruginous, Nodules, 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)
C8																
0	to	75	mm	3.98	6.7	5.9	0.07	19.28	4.49	0.14	1.25	25.16	0.56	62.70	0.37	517
200	to	275	mm	3.44	6.3	5.6	0.08	16.13	4.29	0.16	0.57	21.15	0.76	33.30	0.33	222
400	to	600	mm	0.72	4.9	4.3	0.09	4.26	3.37	0.11	0.12	10.66	1.03	2.80	0.09	41
650	to	950	mm	0.68	4.8	4.3	0.07	3.47	4.22	0.12	0.12	9.90	1.21	3.50	0.09	42