Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N3 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 21/07/05
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Lemana
Elevation: 330 metres
Rainfall: 1066
Runoff: Moderately rapid
Drainage: Moderately well drained

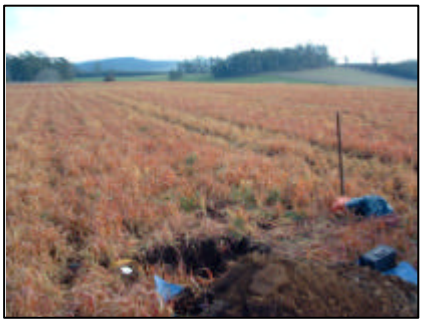
Geology

ExposureType: Soil pit
Geol. Ref.: Tb
Conf. Sub. is Parent. Mat.: Certain
Substrate Material: Basalt

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Morph. Type: Mid-slope
Elem. Type: Bench
Slope: 1 %
Pattern Type: Rises
Relief: No Data
Slope Category: Very gently sloped
Aspect: 290 degrees

Surface Soil Condition (dry):



Erosion: No Data

Soil Classification

Australian Soil Classification:
Acidic Eutrophic Brown Ferrosol Medium Non-gravelly Clay-loamy Clayey Deep
ASC Confidence:
All necessary analytical data are available.

Site Disturbance:

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.18 m	Dark brown (7.5YR3/2-Moist); Clay loam; Strong grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Few (<1 per 100mm2) macropores, Moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Basalt, coarse fragments; Field pH 5.9 (pH meter); Common, fine (1-2mm) roots; Diffuse, Smooth change to -
A12p	0.18 - 0.3 m	Dark brown (7.5YR3/2-Moist); Mechanical, 0-2%, 15-30mm, Distinct, 10YR3/2; Clay loam; Strong grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Few (<1 per 100mm2) macropores, Moist; Weak consistence; Field pH 6 (pH meter); Few, fine (1-2mm) roots; Clear, Irregular change to -
B11p	0.3 - 0.42 m	Dark brown (7.5YR3/4-Moist); Mechanical, 0-2%, 15-30mm, Distinct; Clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Moist; Firm consistence; Few (2 - 10 %), Ferromanganiferous, Nodules, Medium (2 -6 mm) segregations; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots; Clear, Irregular change to -
B12	0.42 - 0.7 m	Brown (7.5YR4/4-Moist); Mottles, 0-2%, 5-15mm, Distinct, 5YR3/4; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moist; Firm consistence; 0-2%, cobbly, 60-200mm, subangular, dispersed, Basalt, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Nodules, Medium (2 -6 mm) segregations; Field pH 5.8 (pH meter); Clear, Wavy change to -
B2	0.7 - 0.95 m	Strong brown (7.5YR4/6-Moist); Mottles, 10-20%, 15-30mm, Prominent; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.8 (pH meter); Clear, Wavy change to -
B3g	0.95 - 1.17 m	Grey (10YR6/1-Moist); Mottles, 10-20%, 15-30mm, Prominent, 10YR5/6; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Field pH 5.6 (pH meter);

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)
0	to	75	mm	4.21	6.2	5.3	0.07	12.35	4.17	0.10	1.64	18.36	0.54	41.50	0.38	633
200	to	275	mm	3.42	6.0	5.2	0.04	10.13	3.57	0.09	0.85	14.74	0.61	22.70	0.32	339
700	to	950	mm	0.48	5.7	5.4	0.03	4.48	2.33	0.08	0.13	7.05	1.14	3.50	0.05	56
950	to	1170	mm	0.38	5.1	4.3	0.02	2.80	4.01	0.09	0.13	8.37	1.07	2.80	0.05	59