

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
 Project Code: SCEAM Site ID: S14 Observation ID: 1
 Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: C.J. Grose
 Date Desc.: 12/04/06
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:

Locality: Apsley
 Elevation: 239 metres
 Rainfall: 532
 Runoff: Slow
 Drainage: Imperfect

Geology

Exposure Type: Soil pit
 Geol. Ref.: No Data

Conf. Sub. is Parent. Mat.: certain
 Substrate Material: Soil pit, Clay

Land Form

Rel/Slope Class: Gently undulating plains <9m
 1-3%

Pattern Type: Plain

Morph. Type: Flat
 Elem. Type: Plain
 Slope: 3 %

Relief: No Data
 Slope Category: Very gently sloped
 Aspect: 60 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:
 Haplic Hypocalcic Brown Chromosol Thin Non-gravelly
 Clay-loamy Clayey Deep

ASC Confidence:
 reasonable confidence.

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: None



Profile Morphology

Ap	0 - 0.16 m	Dark greyish brown (10YR4/2-Moist); Sandy clay loam; Weak grade of structure, 5-10 mm, Granular; Earthy fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; Common, very fine (0-1mm) roots; Sharp, Smooth change to -
B1	0.16 - 0.27 m	Very dark greyish brown (10YR3/2-Moist); Mechanical, 20-50%, 15-30mm, Distinct, 10YR4/4; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Few, very fine (0-1mm) roots; Gradual, Wavy change
B21	0.27 - 0.68 m	Dark greyish brown (2.5Y4/3-Moist); Mottles, 10-20%, 5-15mm, Faint, 10YR4/3; Heavy clay; Strong grade of structure, 200-500 mm, Prismatic; Strong grade of structure, 50-100 mm, Angular blocky; Rough-ped fabric; Medium, (5 - 10) mm crack; Moderately moist; Strong consistence; Very plastic; Normal plasticity; Moderately sticky; Very few (0 - 2 %), Manganiferous, Concretions, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots; Gradual, Wavy change to -
B22	0.68 - 1 m	Reddish brown (2.5YR4/3-Moist); Heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Very plastic; Normal plasticity; Moderately sticky; Very few (0 - 2 %), Calcareous, Nodules, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots;

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					
S14	0	to 75 mm	1.87	5.7	4.7	0.05	3.74	1.81	0.25	0.14	6.48	3.86	16.40	0.20	57
	150	to 225 mm	1.37	5.8	4.7	0.04	3.66	2.11	0.31	0.15	6.66	4.65	5.90	0.16	62
	270	to 470 mm	0.56	7.7	6.9	0.11	11.20	20.77	3.63	0.55	36.16	10.04	1.50	0.05	209
	470	to 680 mm	0.33	8.8	7.7	0.20	11.83	19.77	4.63	0.58	36.83	12.57	0.90	0.04	220
	680	to 1000 mm	0.16	9.1	8.3	0.42	12.72	21.44	5.57	0.49	40.22	13.85	2.90	0.03	187