

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
 Project Code: SCEAM Site ID: N37 Observation ID: 1
 Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By:
 Date Desc.: 13/07/06
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:
 Locality: Epping Forest
 Elevation: 168 metres
 Rainfall: 583
 Runoff: Moderately rapid
 Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%
 Morph. Type: Flat
 Elem. Type: Plain
 Slope: 0 %
 Pattern Type: Stagnant alluvial plain
 Relief: No Data
 Slope Category: Level
 Aspect: No Data

Surface Soil Condition (dry): Self-mulching

Erosion: No Data

Soil Classification

Australian Soil Classification:
 Mottled Self-Mulching Black Vertosol Non-gravelly Fine
 Medium fine Deep
ASC Confidence:
 All necessary analytical data are available.



Site Disturbance: Cultivation. Rainfed

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm

Profile Morphology

A1p	0 - 0.25 m	Very dark brown (10YR2/2-Moist); Clay loam; Strong grade of structure, 20-50 mm, Polyhedral; Strong grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Slightly plastic; Normal plasticity; Slightly sticky; Few cutans, <10% of ped faces or walls coated, faint; Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Abrupt, Wavy change to -
B1	0.25 - 0.44 m	Very dark grey (2.5Y3/1-Moist); Mottles, 2-10%, 0-5mm, Faint, 10YR4/6; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Strong grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Very plastic; Normal plasticity; Slightly sticky; Many cutans, >50% of ped faces or walls coated, distinct; Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.44 - 0.74 m	(/-Moist); Mottles, 10-20%, 0-5mm, Distinct, 10YR4/6; Light medium clay; Strong grade of structure, 20-50 mm, Columnar; Rough-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Very plastic; Normal plasticity; Slightly sticky; Few cutans, <10% of ped faces or walls coated, faint; Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Smooth change to -
B22	0.74 - 0.89 m	Mottles, 20-50%, 0-5mm, Prominent, 10YR4/6; Light medium clay; Strong grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Very plastic; Normal plasticity; Slightly sticky; Few cutans, <10% of ped faces or walls coated, faint; Few cutans, <10% of ped faces or walls coated, faint; Few, very fine (0-1mm) roots; Clear, Smooth change to -
B23	0.89 - 1 m	Mottles, 20-50%, 5-15mm, Prominent, 10YR5/8; Medium heavy clay; Strong grade of structure, 50-100 mm, Polyhedral; Rough-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; Very plastic; Normal plasticity; Slightly sticky; Many cutans, >50% of ped faces or walls coated, distinct; Common cutans, 10-50% of ped faces or walls

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					
N37	0 to 75 mm	4.03	6.1	5.4	0.11	16.31	8.17	0.58	0.44	25.61	2.26	7.90	0.44	173
	200 to 275 mm	4.24	6.1	5.4	0.14	17.76	8.33	0.73	0.35	27.24	2.68	7.30	0.44	141
	250 to 400 mm	1.97	5.5	4.8	0.16	9.12	8.61	1.02	0.21	19.73	5.17	2.20	0.28	69
	470 to 700 mm	0.91	5.6	4.9	0.17	7.88	9.84	1.05	0.23	19.50	5.38	0.70	0.10	79
	750 to 850 mm	0.72	5.8	5.1	0.14	8.64	10.81	1.04	0.26	20.96	4.96	0.50	0.15	85
	900 to 1000 mm	0.57	6.5	5.7	0.09	9.41	11.30	0.99	0.21	22.08	4.48	0.60	0.09	75