SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania **Project Name: Project Code: SCEAM** Site ID: Observation ID: 1 **C7**

Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: D.B. Kidd Locality: Penguin Date Desc.: 03/08/05 Elevation: 200 metres Map Ref.: Rainfall: 1141

Northing/Long.: Runoff: Moderately rapid Easting/Lat.: Drainage: Well drained

Geology ExposureType: Soil pit Conf. Sub. is Parent. Mat.: certain Geol. Ref.: Tertiary Basalt Substrate Material: Basalt

Land Form

Rel/Slope Class: Undulating hills 90-300m 3-10% Pattern Type: Low hills Relief: No Data Morph. Type: Lower-slope

Slope Category: Elem. Type: Footslope Very gently sloped Slope: 3 % Aspect: 20 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data Soil Classification

Australian Soil Classification:

Acidic Mesotrophic Red Ferrosol Medium Non-gravelly

Clayey Clayey Deep **ASC Confidence:**

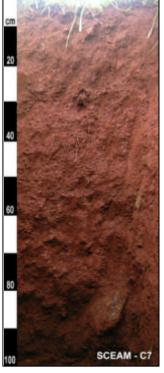
Analytical data are incomplete but reasonable confidence.

Site Disturbance: Complete clearing. Pasture

Vegetation: Pasture

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





Profile Morphology

Dark reddish brown (5YR3/3-Moist); Light clay; Moderate grade of structure, 10-20 mm, 0 - 0.19 m Subangular blocky: Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Fine, (0 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately

moist; Weak consistence; Moderately plastic; Subplastic; Slightly sticky; 0-2%, cobbly, 60-200mm, subrounded, dispersed, Basalt, coarse fragments; Many, very fine (0-1mm)

roots: Gradual. Smooth change to

Dark reddish brown (5YR3/4-Moist); Clay loam (Heavy); Moderate grade of structure, 20-50 AΒ 0.19 - 0.33 m

mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Moderately plastic; Subplastic; Slightly sticky; 0-2%, cobbly, 60-200mm, subrounded, dispersed, Basalt, coarse fragments; Fewcutans, <10% of ped faces or walls coated, distinct; Cultivation pan, Weakly cemented, Discontinuous, Massive; Many, very

fine (0-1mm) roots; Gradual, Smooth change to -

B21t 0.33 - 0.68 m (/-Moist); Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderate grade of

> structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Slightly plastic; Subplastic; Slightly sticky; 0-2%, cobbly, 60-200mm, subrounded, dispersed, Basalt, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Common, very

fine (0-1mm) roots; Gradual, Smooth change to -

B22t 0.68 - 1.05 m Dark red (2.5YR3/6-Moist); Mottles, 0-2%, 0-5mm, Faint, 5YR4/6; Light clay; Moderate grade

of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Slightly plastic; Subplastic; Slightly sticky; 0-2%, cobbly, 60-200mm, subrounded, dispersed, Basalt, coarse fragments; Common

cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous,

Nodules, Fine (0 - 2 mm) segregations; Few, very fine (0-1mm) roots;

Chemistry Data

			Organic C%	pH (H20)	pH (CaCl2)	EC (dS/m)	Exchan Ca	geable Ba Mg	ses (meq/ Na	100g) K	ECEC (meq/100g)	ESP %	Olsen P (mg/kg)	Total N %	Colwell_K (mg/kg)
0	to	75 mm	4.14	5.7	5.0	0.07	9.69	1.47	0.13	0.63	12.20	1.07	31.10	0.39	253
200	to	275 mm	4.83	5.8	5.1	0.07	10.28	1.89	0.15	0.69	13.41	1.12	32.30	0.42	261
350	to	650 mm	2.34	4.9	4.4	0.08	2.47	0.51	0.16	0.19	5.03	3.18	2.70	0.19	69
700	to	1000 mm	1.28	4.9	4.6	0.10	2.57	0.51	0.07	0.18	4 27	1 64	2 60	0.11	65