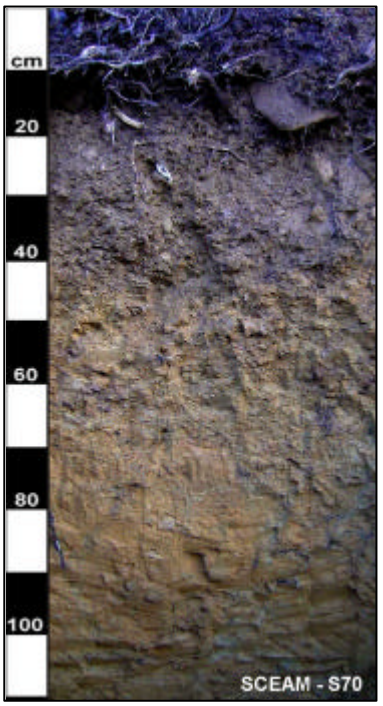
Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S70 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water



Site Information

Desc. By: G. Scholtz
Date Desc.: 06/05/07
Map Ref.: Sheet No. : SK55-8 1:250000
Northing/Long.:
Easting/Lat.:
Locality: Weld Valley
Elevation: 525 metres
Rainfall: 1000
Runoff: Very slow
Drainage: Rapidly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Jurassic Dolerite
Conf. Sub. is Parent. Mat.: certain
Substrate Material: Dolerite

Land Form

Rel/Slope Class: Precipitous hills 90-300m >100%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 4 %
Pattern Type: Mountains
Relief: 300 metres
Slope Category: Moderately inclined
Aspect: 270 degrees

Surface Soil Condition (dry): Loose

Erosion: Stable, Minor (sheet)

Soil Classification

Australian Soil Classification:
Haplic Dystrophic Yellow Dermosol Medium Slightly gravelly Clay-loamy Clay-loamy Deep
ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Site Disturbance: No effective disturbance. Natural

Vegetation: Tall Strata - Cycad, 20.01-35m, Closed or dense. *Species includes - Eucalyptus obliqua

Surface Coarse Fragments: 50-90%, bouldery, 600mm-2m, subrounded, Dolerite

Profile Morphology

Ah 0 - 15 m
Dark reddish brown (5YR2.5/2-Moist); Dark reddish brown (5YR3/4-Dry); Fine sandy loam (Light); Moderate grade of structure, 10-20 mm, Granular; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Non-plastic; Normal plasticity; Non-sticky; 50-90%, coarse gravelly, 20-60mm, rounded, dispersed, Dolerite, coarse fragments; 50-90%, cobbly, 60-200mm, rounded, dispersed, Dolerite, coarse fragments; 50-90%, stony, 200-600mm, rounded, dispersed, Dolerite, coarse fragments; Abundant, fine (1-2mm) roots; Abundant, medium (2-5mm) roots; Abundant, coarse (>5mm) roots; Gradual, Smooth change to -

B21 15 - 25 m
Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); Fine sandy clay loam; Moderate grade of structure, 10-20 mm, Granular; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very weak consistence; Non-plastic; Non-sticky; 50-90%, coarse gravelly, 20-60mm, rounded, dispersed, Dolerite, coarse fragments; 50-90%, cobbly, 60-200mm, rounded, dispersed, Dolerite, coarse fragments; 50-90%, stony, 200-600mm, rounded, dispersed, Dolerite, coarse fragments; Abundant, very fine (0-1mm) roots; Abundant, fine (1-2mm) roots; Abundant, medium (2-5mm) roots; Abundant, coarse (>5mm) roots; Gradual, Smooth

B22 25 - 100 m
Yellowish brown (10YR5/8-Moist); Brownish yellow (10YR6/8-Dry); Mottles, 0-2%, 5-15mm, Faint, 7.5YR5/8; Clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Granular; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Many (>5 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Weak consistence; Non-plastic; Slightly sticky; 50-90%, coarse gravelly, 20-60mm, rounded, dispersed, Dolerite, coarse fragments; 50-90%, cobbly, 60-200mm, rounded, dispersed, Dolerite, coarse fragments; 50-90%, stony, 200-600mm, subrounded, dispersed, Dolerite, coarse fragments; Abundant, very fine (0-1mm) roots; Abundant, fine (1-2mm) roots; Abundant, medium (2-5mm) roots;

.

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)
S70																
0	to	75	mm	5.05	4.4	3.7	0.15	4.92	2.17	0.39	0.71	13.33	2.93	7.10	0.34	274
150	to	225	mm	5.37	4.8	3.9	0.09	1.68	1.33	0.34	0.57	8.24	4.13	2.90	0.25	207
300	to	600	mm	1.46	5.7	4.5	0.06	0.60	1.11	0.80	0.38	5.18	15.44	1.20	0.10	129
600	to	1000	mm	0.85	5.8	4.3	0.07	0.71	1.67	1.04	0.22	6.01	17.30	1.10	0.08	73
1000	to	1200	mm	0.90	5.7	4.3	0.05	0.72	2.09	1.04	0.08	6.06	17.16	13.10	0.04	21