

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S24 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: D.B. Kidd
Date Desc.: 15/09/05
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Hamilton
Elevation: 139 metres
Rainfall: 548
Runoff: Rapid
Drainage: Imperfect

Geology

Exposure Type: Soil pit
Geol. Ref.: Jurassic Dolerite

Conf. Sub. is Parent. Mat.: Certain
Substrate Material: Dolerite

Land Form

Rel/Slope Class: Rolling hills 90-300m 10-32%
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 37 %

Pattern Type: Hills
Relief: No Data
Slope Category: Steep
Aspect: 48 degrees

Surface Soil Condition (dry): Soft

Erosion: Partial, Minor (sheet)

Soil Classification

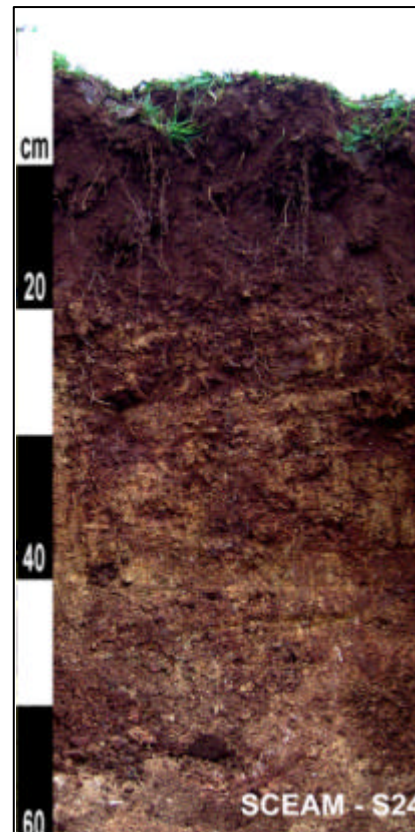
Australian Soil Classification:
 Basic Paralithic Leptic Rudosol Slightly gravelly
 Loamy Shallow

ASC Confidence:
 reasonable confidence.

Site Disturbance: Complete clearing.
 Pasture.

Vegetation:

Surface Coarse Fragments: 2-10%,
 cobbly, 60-200mm, , Dolerite



Profile Morphology

A1	0 - 0.22 m	Dark reddish brown (5YR2.5/2-Moist); Loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Slightly plastic; Normal plasticity; Non-sticky; 0-2%, cobbly, 60-200mm, subrounded, dispersed, Dolerite, coarse fragments; Common, very fine (0-1mm) roots; Clear,
B2t	0.22 - 0.4 m	Yellow (10YR7/6-Moist); Substrate influence, 10-20%, 15-30mm, Distinct, 5YR3/4; Medium clay; Massive grade of structure; Moderately moist; Very firm consistence; 0-2%, cobbly, 60-200mm, subrounded, dispersed, Dolerite, coarse fragments; Common (10 - 20 %), Calcareous, Soft segregations, Coarse (6 - 20 mm) segregations; Other pans, Moderately cemented, Continuous, Vesicular; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
C	0.4 - 0.42 m	Yellow (10YR7/6-Moist); Substrate influence, 10-20%, 15-30mm, Distinct; Medium clay; Massive grade of structure; Moderately moist; Very firm consistence; 0-2%, cobbly, 60-200mm, subrounded, dispersed, Dolerite, coarse fragments; Common (10 - 20 %), Calcareous, Soft segregations, Coarse (6 - 20 mm) segregations;

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_I (mg/kg)
					Ca	Mg	Na	K					
S24 0 to 75 mm	3.06	6.3	5.4	0.05	17.81	5.24	0.37	0.28	23.84	1.55	4.90	0.27	114
100 to 200 mm	2.37	6.3	5.8	0.04	19.56	6.23	0.31	0.14	26.28	1.18	3.90	0.22	58
220 to 400 mm	0.99	6.5	6.1	0.04	23.67	10.27	0.64	0.09	34.71	1.84	2.40	0.11	37