Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N14 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 20/09/05
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Avoca
Elevation: 220 metres
Rainfall: 560
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Jurassic Dolerite

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: Lower-slope
Elem. Type: Valley flat
Slope: 2 %

Pattern Type: Low hills
Relief: No Data
Slope Category: Very gently sloped
Aspect: 300 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

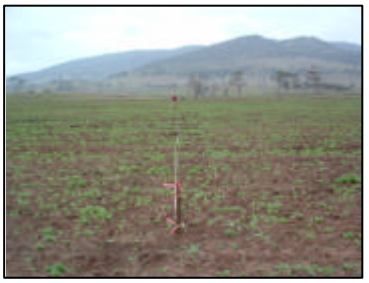
Australian Soil Classification:
Haplic Eutrophic Red Chromosol Medium Non-gravelly Loamy Clayey Moderately deep

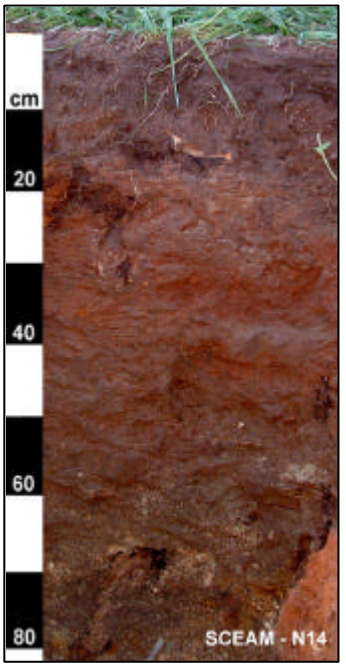
ASC Confidence:
All necessary analytical data are available.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

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





Profile Morphology

Ap	0 - 0.18 m	Dark brown (7.5YR3/2-Moist); Loam; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very weak consistence; Non-plastic; Slightly sticky; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Dolerite, coarse fragments; Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
A2f	0.18 - 0.21 m	Brown (10YR4/3-Moist); Biological mixing, 0-2%, 15-30mm, Distinct, 7.5YR3/2; Clay loam; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Very weak consistence; Non-plastic; Moderately sticky; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B2t	0.21 - 0.4 m	Dark reddish brown (5YR3/4-Moist); Biological mixing, 0-2%, 0-5mm, Distinct, 7.5YR3/2; Medium clay (Light); Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Moderately plastic; Normal plasticity; Very sticky; 2-10%, coarse gravelly, 20-60mm, subangular, dispersed, Dolerite, coarse fragments; Few (2 - 10 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots; Clear, Irregular change to -
B3g	0.4 - 0.65 m	Brown (10YR4/3-Moist); Mottles, 2-10%, 15-30mm, Distinct, 5YR3/4; Medium clay; Smooth-ped fabric; Few (<1 per 100mm2) Coarse (>5mm) macropores, Moderately moist; Weak consistence; Very plastic; Normal plasticity; Very sticky; 10-20%, cobbly, 60-200mm, subangular, stratified, Dolerite, coarse fragments; Few (2 - 10 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Clear, Irregular change to -
BCr	0.65 - 0.8 m	Greyish brown (2.5Y5/3-Moist); Mottles, 2-10%, 0-5mm, Distinct, 7.5YR5/6; Mottles, 0-2%, 5-15mm, Faint, 10YR4/2; Loam; Earthy fabric; Few (<1 per 100mm2) Coarse (>5mm) macropores, Moderately moist; Weak consistence; Non-plastic; Very sticky; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, Dolerite, coarse fragments;

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)
N14																
0	to	75	mm	2.72	6.2	5.8	0.20	10.14	1.20	0.08	0.50	12.06	0.66	42.70	0.19	197
150	to	225	mm	0.60	6.1	5.3	0.06	3.25	0.85	0.06	0.31	4.69	1.28	7.20	0.03	120
210	to	400	mm	0.96	8.1	7.4	0.09	26.16	8.22	0.25	1.32	35.97	0.70	1.00	0.11	509
400	to	650	mm	0.65	7.8	7.3	0.12	24.59	8.89	0.38	1.20	35.09	1.08	0.80	0.05	477
650	to	800	mm	0.75	7.7	7.4	0.14	25.99	8.90	0.52	1.18	36.61	1.42	1.50	0.06	460