Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N31 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: D.B. Kidd
Date Desc.: 07/03/06
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Diddleum Plains
Elevation: 600 metres
Rainfall: 1200
Runoff: Slow
Drainage: Moderately well drained

Geology

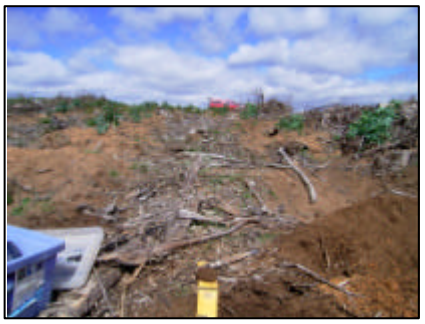
ExposureType: Soil pit
Geol. Ref.: Gn
Conf. Sub. is Parent. Mat.: certain
Substrate Material: Granite

Land Form

Rel/Slope Class: Undulating hills 90-300m 3-10%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 6 %
Pattern Type: Hills
Relief: No Data
Slope Category: Gently inclined
Aspect: 23 degrees

Surface Soil Condition (dry): Loose

Erosion: none



Soil Classification

Australian Soil Classification:
Haplic Class Undetermined Brown Dermosol Medium Non-gravelly Loamy Clayey Deep
ASC Confidence:
reasonable confidence.

Site Disturbance: Highly disturbed

Vegetation:

Surface Coarse Fragments: None

Profile Morphology

A11	0 - 12 m	Very dark brown (10YR2/2-Moist); Loamy coarse sand; Moderate grade of structure, 2-5 mm, Granular; Moderate grade of structure, <2 mm, Granular; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Non-plastic; Non-sticky; , Uncemented; Common, very fine (0-1mm) roots; Clear, Smooth change to -
A12	12 - 26 m	Very dark brown (10YR2/2-Moist); Loamy coarse sand; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, <2 mm, Granular; Earthy fabric; Few (<1 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Weak consistence; Non-plastic; Slightly sticky; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Charcoal, coarse fragments; , Uncemented; , very fine (0-1mm) roots; Clear, Smooth change to -
A3	26 - 44 m	Very dark brown (10YR2/2-Moist); Loamy coarse sand; Strong grade of structure, 10-20 mm, Subangular blocky; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Weak consistence; Non-plastic; Moderately sticky; , Uncemented; Many, very fine (0-1mm) roots; Gradual, Smooth change to -
AB	44 - 60 m	Dark brown (10YR3/3-Moist); Clay loam, coarse sandy; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Moderately plastic; Subplastic; Slightly sticky; , Uncemented; Many, very fine (0-1mm) roots; Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B1	60 - 75 m	Strong brown (7.5YR4/6-Moist); Biological mixing, 2-10%, 5-15mm, Distinct, 10YR3/3; Coarse sandy light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Moderately plastic; Subplastic; Moderately sticky; , Uncemented; Gradual,
B2t	75 - 92 m	Strong brown (7.5YR4/6-Moist); Coarse sandy light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Very plastic; Subplastic; Very sticky; , Uncemented; Gradual, Smooth change to -
BC	92 - 120 m	Strong brown (7.5YR5/8-Moist); Coarse sandy light clay; Massive grade of structure; Smooth-ped fabric; Moderately moist; Firm consistence; Very plastic; Subplastic; Very

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)
N31																
0	to	75	mm	8.44	5.3	4.4	0.04	1.29	0.57	0.10	0.24	6.29	1.59	8.70	0.55	83
150	to	225	mm	7.02	5.4	4.4	0.03	1.21	0.47	0.09	0.22	5.77	1.56	8.80	0.47	82
300	to	400	mm	6.75	5.0	4.3	0.06	0.52	0.31	0.09	0.15	4.51	2.00	4.20	0.38	58
500	to	600	mm	4.09	5.4	4.4	0.02	0.30	0.18	0.09	0.09	3.30	2.73	2.20	0.24	47
600	to	750	mm	1.89	5.3	4.3	0.03	0.21	0.17	0.07	0.07	2.91	2.41	1.60	0.15	34
800	to	900	mm	0.80	5.2	4.4	0.03	0.23	0.22	0.07	0.07	2.38	2.94	0.80	0.07	33