

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
 Project Code: SCEAM Site ID: S29 Observation ID: 1
 Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
 Date Desc.: 29/03/06
 Map Ref.:
 Northing/Long.:
 Easting/Lat.:

Locality: Swansea
 Elevation: 26 metres
 Rainfall: 615
 Runoff: Slow
 Drainage: Well drained

Geology

Exposure Type: Soil pit
 Geol. Ref.: Qh

Conf. Sub. is Parent. Mat.: Probable
 Substrate Material: Alluvium

Land Form

Rel/Slope Class: Level plain <9m <1%
 Morph. Type: Flat
 Elem. Type: Channel bench
 Slope: 1 %

Pattern Type: Alluvial fan
 Relief: No Data
 Slope Category: Level
 Aspect: 220 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:
 Manganic Eutrophic Brown Kandosol Medium Non-gravelly
 Clay-loamy Clayey Deep

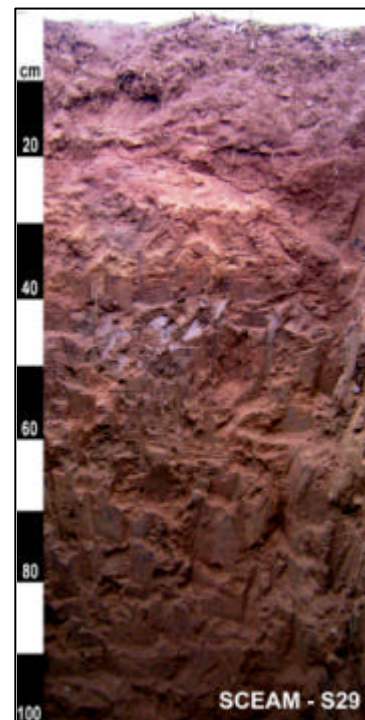
ASC Confidence:

All necessary analytical data are available.

Site Disturbance: Complete cleared

Vegetation: Pasture

Surface Coarse Fragments: 10-20%, cobbly, 60-200mm



Profile Morphology

A11	0 - 0.12 m	Dark brown (7.5YR3/3-Moist); Dark yellowish brown (10YR4/4-Dry); Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Moderate grade of structure, <2 mm, Polyhedral; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Non-plastic; Slightly sticky; 0-2%, coarse gravelly, 20-60mm, subrounded, dispersed, Basalt, coarse fragments; Many, very fine (0-1mm) roots; Clear, Smooth change to -
A12	0.12 - 0.2 m	Strong brown (7.5YR4/6-Moist); Clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Weak grade of structure, <2 mm, Polyhedral; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Dry; Weak consistence; Non-plastic; Slightly sticky; Very few (0 - 2 %), Manganiferous, Nodules, Fine (0 - 2 mm) segregations; Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B1t	0.2 - 0.44 m	Strong brown (7.5YR4/6-Moist); Mottles, 2-10%, 0-5mm, Distinct, 5YR4/6; Clay loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Dry; Firm consistence; Slightly plastic; Normal plasticity; Moderately sticky; Common (10 - 20 %), Manganiferous, Nodules, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots; Clear, Smooth change to -
B2t	0.44 - 1 m	Dark brown (10YR3/3-Moist); Mottles, 2-10%, 0-5mm, Distinct, 7.5YR5/6; Light clay; Massive grade of structure; Earthy fabric; Moderately moist; Strong consistence; Moderately plastic; Normal plasticity; Very sticky; Many (20 - 50 %), Manganiferous, Nodules, Medium (2 -6 mm) segregations;

Chemistry Data

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			Organic C%	pH (H2O)	pH (CaCl2)	EC (dS/m)	Exchangeable Bases (meq/100g)				ECEC (meq/100g)	ESP %	Olsen P (mg/kg)	Total N %	Colwell_K (mg/kg)
							Ca	Mg	Na	K					
0	to	75 mm	1.99	5.9	5.2	0.13	9.68	2.75	0.37	0.55	13.47	2.75	35.40	0.19	207
100	to	200 mm	1.95	6.3	5.3	0.12	9.79	5.17	0.55	0.14	15.75	3.49	21.90	0.21	59
200	to	275 mm	2.17	5.7	5.2	0.33	9.14	2.37	0.44	0.81	13.07	3.37	85.60	0.19	311
200	to	440 mm	0.77	6.7	5.6	0.08	5.26	8.05	1.33	0.07	14.72	9.04	0.80	0.03	34
440	to	750 mm	0.76	7.3	6.1	0.11	5.70	14.31	3.26	0.14	23.43	13.91	0.60	0.10	57
750	to	1000 mm	0.28	8.8	7.4	0.16	6.09	17.88	5.40	0.19	29.58	18.26	0.90	0.05	75