

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N27 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 12/04/05
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Near Gladstone.
Elevation: 45 metres
Rainfall: 836
Runoff: Slow
Drainage: Moderately well drained

Geology

Exposure Type: Soil pit
Geol. Ref.: Qa

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

Land Form

Rel/Slope Class: Gently undulating plains <9m
 1-3%

Pattern Type: Plain

Morph. Type: Flat
Elem. Type: Hillslope
Slope: 1 %

Relief: No Data
Slope Category: Very gently sloped
Aspect: 325 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

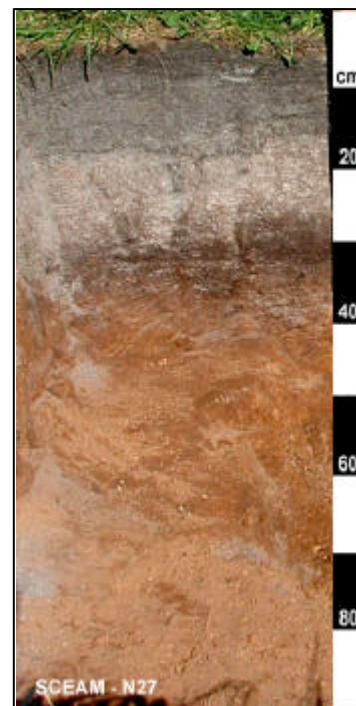
Australian Soil Classification:
 Placic Humosequic Semiaquic Podosol, Medium Slightly
 gravelly Loamy Loamy Shallow

ASC Confidence:
 Reasonable confidence.

Site Disturbance: No effective disturbance

Vegetation:

Surface Coarse Fragments: None



Profile Morphology

A1	0 - 0.14 m	Black (10YR2/1-Moist); Dark grey (10YR4/1-Dry); Sandy loam; Weak grade of structure, 2-5 mm, Polyhedral; Sandy (grains prominent) fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Field pH 3.8 (pH meter); Common, very fine (0-1mm) roots; Abrupt, Wavy change to -
A2	0.14 - 0.23 m	Grey (7.5YR5/1-Moist); Grey (10YR5/1-Dry); Loamy sand; Weak grade of structure, 2-5 mm, Subangular blocky; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 3.4 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
Bh	0.23 - 0.32 m	(7.5YR2.5/1-Moist); Sandy loam; Weak grade of structure, 2-5 mm, Subangular blocky; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Other pans, Weakly cemented, Continuous, Concretionary; Field pH 3.3 (pH meter); Common, very fine (0-1mm) roots; Clear, Smooth change to -
Cb	0.32 - 0.79 m	Strong brown (7.5YR4/6-Moist); Substrate influence, 20-50%, 0-5mm, Distinct, 7.5YR3/1; 10-20%, 15-30mm, Distinct, 7.5YR3/1; Sandy (grains prominent) fabric; Dry; Rigid consistence; Common (10 - 20 %), Ferruginous, Concretions, Coarse (6 - 20 mm) segregations; Field pH 3.5 (pH meter); Abrupt, Smooth change to -
R	0.79 - m	Rock

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_K (mg/kg)
					Ca	Mg	Na	K					
N27 0 to 75 mm	3.04	5.7	4.7	0.07	5.41	0.64	0.14	0.15	6.59	2.12	28.30	0.17	46
150 to 225 mm	1.58	5.3	4.3	0.05	1.87	0.30	0.08	0.08	2.75	2.91	30.40	0.08	29
320 to 790 mm	1.74	4.5	3.8	0.15	1.08	0.38	0.19	0.07	3.71	5.12	23.30	0.09	45