

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N28 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: R. Moreton
Date Desc.: 14/04/05
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: near Gladstone
Elevation: 41 metres
Rainfall: 792
Runoff: Slow
Drainage: Imperfectly drained

Geology

Exposure Type: Existing vertical exposure
Geol. Ref.: Qa
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating low hills 30-90m
Pattern Type: Low hills
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: %
Relief: No Data
Slope Category: Very gently sloped
Aspect: No Data

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

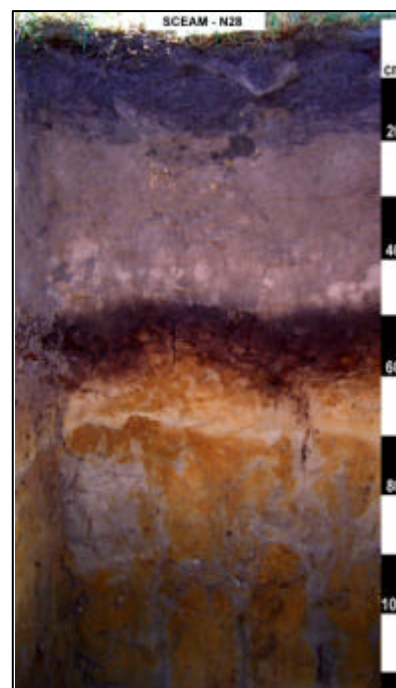
Australian Soil Classification:
 Melanic Humosequic Semiaquic Podsol Thick Non-gravelly
 Loamy Clay-loamy Deep

ASC Confidence:
 reasonable confidence.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: None



Profile Morphology

A1	0 - 0.2 m	Black (10YR2/1-Moist); Sandy loam; Weak grade of structure, 2-5 mm, Polyhedral; Single grain grade of structure, <2 mm, Granular; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Non-sticky; Field pH 5.3 (pH meter); Abundant, very fine (0-1mm) roots; Abrupt, Wavy change to -
A2	0.2 - 0.48 m	Greyish brown (10YR5/2-Moist); Loamy sand; Single grain grade of structure, Granular; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Non-sticky; Field pH 4.7 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B11hs	0.48 - 0.56 m	(7.5YR2.5/1-Moist); 0-2%, 5-15mm, Faint, 10YR4/6; Loam; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Non-plastic; Non-sticky; Organic pan, Weakly cemented, Continuous, Massive; Field pH 4.8 (pH meter); Few, very fine (0-1mm) roots; Clear, Wavy change to -
B12s	0.56 - 0.65 m	Dark yellowish brown (10YR4/6-Moist); 2-10%, 5-15mm, Distinct, 10YR3/3; 0-2%, 30-mm, Distinct, 2.5Y6/4; Clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Non-plastic; Non-sticky; Few (2 - 10 %), Ferruginous, Nodules, Medium (2 -6 mm) segregations; Ferricrete, Weakly cemented, Continuous, Concretionary; Field pH 4.7 (pH meter); Clear, Smooth change to -
B2	0.65 - m	Yellowish brown (10YR5/6-Moist); Sandy light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; Slightly plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Field pH 4.7 (pH

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					
N28	0	to 75 mm	3.26	5.6	4.6	0.07	5.75	1.13	0.18	0.17	7.47	2.41	3.20	0.26	55
	200	to 275 mm	0.68	5.4	4.2	0.04	1.02	0.25	0.10	0.04	1.61	6.20	0.00	0.05	16
	480	to 560 mm	1.45	5.1	4.2	0.07	1.09	0.66	0.20	0.03	4.60	4.35	23.60	0.12	26
	560	to 650 mm	0.20	5.1	4.2	0.09	0.54	1.07	0.30	0.11	3.83	7.82	1.70	0.02	46