

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S16 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: Rob Moreton
Date Desc.: 20/05/05
Map Ref.:
Northing/Long.:
Easting/Lat.:
Locality: Near Cambridge
Elevation: 8 metres
Rainfall: 532
Runoff: Slow
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Qa
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Gently undulating plains <9m
 1-3%
Morph. Type: Flat
Elem. Type: Terrace flat
Slope: 2 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: Level
Aspect: 3 degrees

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:

Sodic Eutrophic Brown Dermosol Medium Non-gravelly
Clayey Clayey Deep

ASC Confidence:

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation: crop

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm



Profile Morphology

A1	0 - 0.18 m	Very dark grey (2.5Y3/1-Moist); 2-10%, 0-5mm, Distinct, 2.5YR4/8; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Weak grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Firm consistence; Non-plastic; Non-sticky; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.18 - 0.43 m	Very dark grey (5Y3/1-Moist); Mottles, 2-10%, 0-5mm, Distinct, 10YR6/8; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Non-plastic; Slightly sticky; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Few, very fine (0-1mm) roots; Diffuse, Smooth change to
B22	0.43 - 0.8 m	Olive (5Y4/3-Moist); Medium clay; Moderate grade of structure, 200-500 mm, Platy; Moderate grade of structure, 50-100 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Non-plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, rounded, dispersed, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Few, very fine (0-1mm) roots; Diffuse, Wavy change to -
B3	0.8 - 0.92 m	Light olive brown (2.5Y5/6-Moist); Mottles, 20-50%, 5-15mm, Faint, 2.5Y6/4; Substrate influence, 0-2%, 0-5mm, Distinct, 10YR6/8; Medium clay; Moderate grade of structure, 50-100 mm, Platy; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Non-plastic; Non-sticky; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, coarse fragments; Abrupt, Wavy change to -
C	0.92 - 1.3 m	Light olive brown (2.5Y5/6-Moist); Substrate influence, 2-10%, 5-15mm, Distinct, 10YR6/8; Rough-ped fabric; Moderately moist; Firm consistence; Non-plastic; Non-sticky; 50-90%, medium gravelly, 6-20mm, rounded, stratified, coarse fragments;

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					
S16 0 to 75 mm	1.86	6.4	5.6	0.10	11.14	6.61	0.67	0.58	19.08	3.51	56.10	0.26	227
150 to 225 mm	1.55	6.7	5.7	0.10	10.87	8.86	1.07	0.36	21.39	5.00	21.00	0.19	152
500 to 700 mm	0.58	8.2	7.1	0.21	11.31	18.07	4.15	0.42	34.09	12.17	1.00	0.06	166
800 to 900 mm	0.21	8.4	7.6	0.30	10.16	14.09	4.73	0.36	29.38	16.10	0.60	0.04	135