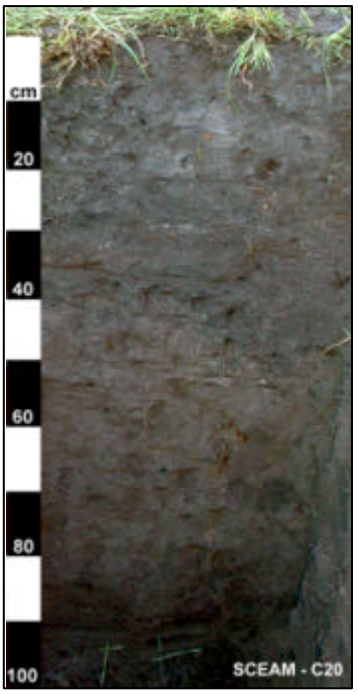
Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** C21 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: D.B. Kidd
Date Desc.: 21/04/05
Map Ref.:
Northing/Long.:
Easting/Lat.:

Locality: Brittons Swamp.
Elevation: 50 metres
Rainfall: 1318
Runoff: Very 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: Backplain
Slope: 3 %

Pattern Type: Alluvial plain
Relief: No Data
Slope Category: Level
Aspect: 0

Surface Soil Condition (dry): Firm

Erosion: No Data

Soil Classification

Australian Soil Classification:
Chernic Humose-Acidic Oxyaquic Hydrosol Loamy Clayey Deep
ASC Confidence:
reasonable confidence.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: None

Profile Morphology

A11	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); Sandy loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Granular; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Non-plastic; Non-sticky; Field pH 5.6 (pH meter); Many, very fine (0-1mm) roots; Sharp, Wavy change to
A12	0.05 - 0.22 m	Very dark greyish brown (10YR3/2-Moist); 20-50%, 15-30mm, Prominent, 10YR8/2; Coarse sandy loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Non-plastic; Non-sticky; Field pH 5.9 (pH meter); Common, very fine (0-1mm) roots; Sharp, Smooth change to -
A2E	0.22 - 0.3 m	Greyish brown (2.5Y5/2-Moist); Loamy coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Non-plastic; Non-sticky; Other pans, Uncemented, Continuous, Massive; Field pH 5.6 (pH meter); Few, very fine (0-1mm) roots; Sharp, Smooth change to -
D	0.3 - 0.33 m	Massive grade of structure; Dry; Non-plastic; Non-sticky; Sharp, Smooth change to -
B21	0.33 - 0.53 m	Very dark greyish brown (10YR3/2-Moist); Silty medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, <2 mm, Granular; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Non-plastic; Slightly sticky; Field pH 5.3 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Irregular change to -
B22	0.53 - 1 m	Very dark grey (10YR3/1-Moist); Silty medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 2-5 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; Field pH 4.8 (pH meter);

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)
C21															
0	to	75 mm	6.04	6.1	5.4	0.23	23.21	8.44	0.85	1.39	33.89	2.51	0.00	1.19	533
200	to	275 mm	6.18	5.3	4.3	0.10	6.00	5.11	0.42	0.53	12.06	3.48	0.00	0.94	189
350	to	450 mm	8.68	5.0	4.2	0.09	1.24	1.22	0.22	0.36	10.72	2.05	4.20	0.43	142
600	to	800 mm	5.72	5.0	4.2	0.07	0.94	0.87	0.16	0.31	10.29	1.55	3.00	0.26	120