

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** S65 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Water

Site Information

Desc. By: H. Hawkins **Locality:** Cygnet
Date Desc.: 13/09/06 **Elevation:** 12 metres
Map Ref.: **Rainfall:** 793
Northing/Long.: **Runoff:** Very slow
Easting/Lat.: **Drainage:** Imperfectly drained

Geology

ExposureType: Soil pit **Conf. Sub. is Parent. Mat.:** Probable
Geol. Ref.: Quaternary Alluvium **Substrate Material:** Alluvium

Land Form

Rel/Slope Class: Gently undulating plains <9m **Pattern Type:** Alluvial plain
 1-3%
Morph. Type: Flat **Relief:** No Data
Elem. Type: Valley flat **Slope Category:** Very gently sloped
Slope: 3% **Aspect:** 13

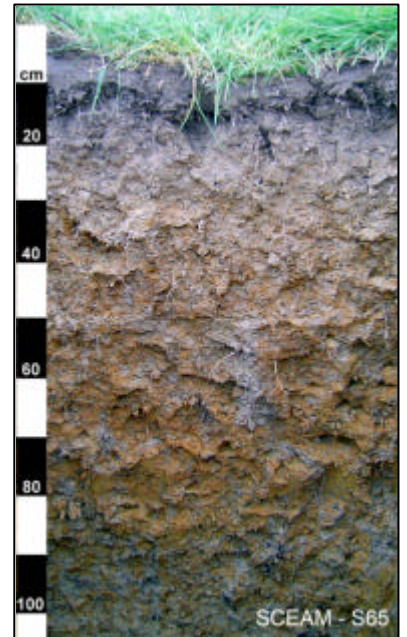
Soil Classification

Australian Soil Classification:
 Mottled Eutrophic Grey Dermosol Medium
 Medium Non-gravelly Clay-loamy Clayey Deep
ASC Confidence:
 All analytical data available

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Profile Morphology



A1	0 - 0.18 m	Dark grey (2.5Y4/1-Moist); Clay loam; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Very plastic; Normal plasticity; Slightly sticky; Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Abrupt, Wavy change to -
A2	0.18 - 0.26 m	Light grey (2.5Y7/1-Moist); Mottles, 0-2%, 0-5mm, Faint, 2.5Y6/2; Mottles, 2-10%, 5-15mm, Distinct, 5YR3/4; Clay loam; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) macropores, Moderately moist; Weak consistence; Moderately plastic; Normal plasticity; Slightly sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Concretions, Very coarse (20 - 60 mm) segregations; Common (10 - 20 %), Ferromanganiferous, Concretions, Coarse (6 - 20 mm) segregations; Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, coarse (>5mm) roots; Clear, Wavy change to -
A3	0.26 - 0.48 m	Greyish brown (2.5Y5/2-Moist); Mottles, 2-10%, 15-30mm, Distinct, 10YR5/8; Medium clay; Strong 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 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very plastic; Normal plasticity; Slightly sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Concretions, Medium (2 -6 mm) segregations; Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, coarse (>5mm) roots;
B21	0.48 - 0.85 m	Grey (2.5Y6/1-Moist); Mottles, 20-50%, 30-mm, Distinct, 10YR5/8; Medium heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very plastic; Normal plasticity; Non-sticky; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Concretions, Medium (2 -6 mm) segregations; Few, very fine (0-1mm) roots; Clear, Wavy change to -
B22	0.85 - 1 m	Grey (5Y6/1-Moist); Mottles, 10-20%, 15-30mm, Distinct, 10YR6/8; Mottles, 0-2%, 0-5mm, Distinct, 7.5YR4/6; Medium heavy clay; Moderate grade of structure, 100-200 mm, Angular blocky; Weak grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Firm consistence; Very plastic; Normal plasticity; Non-sticky; Many cutans, >50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Concretions, Medium (2 -6 mm) segregations;

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 I (mg/kg)
							Ca	Mg	Na	K					
S65	0	to 75 mm	2.42	5.4	4.4	0.05	2.31	0.49	0.12	0.07	4.07	2.95	11.70	0.16	46
	160	to 235 mm	3.68	7.2	6.4	0.18	30.20	22.94	3.15	0.84	57.24	5.50	34.70	0.33	286
	260	to 460 mm	1.59	4.8	3.9	0.04	0.46	0.52	0.18	0.25	13.31	1.35	0.30	0.14	107
	480	to 680 mm	4.78	6.7	5.7	0.19	28.55	21.79	2.20	1.11	53.72	4.10	52.80	0.42	428
	680	to 850 mm	3.56	8.0	7.9	0.18	30.04	13.12	1.06	0.56	44.83	2.36	21.20	0.31	218
	850	to 1000 mm	0.06	5.3	4.3	0.07	2.63	8.87	1.44	0.21	15.79	9.12	0.80	0.03	82