

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** S36 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** H. Hawkins **Locality:** Campbell Town  
**Date Desc.:** 18/09/06 **Elevation:** 273 metres  
**Map Ref.:** GPS S.A. Off **Rainfall:** 497  
**Northing/Long.:** 5327928 AMG zone: 55 **Runoff:** Slow  
**Easting/Lat.:** 532203.00 **Drainage:** Moderately well drained

**Geology**

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

**Land Form**

**Rel/Slope Class:** Gently undulating plains <9m 1-3% **Pattern Type:** Plain  
**Morph. Type:** Flat **Relief:** No Data  
**Elem. Type:** Terrace flat **Slope Category:** Level  
**Slope:** 1 % **Aspect:** 0

**Surface Soil Condition (dry):** Self-mulching

**Erosion:** None

**Soil Classification**

**Australian Soil Classification:**  
 Haplic Self-Mulching Black Vertosol Non-gravelly Fine  
 Medium fine Moderately deep

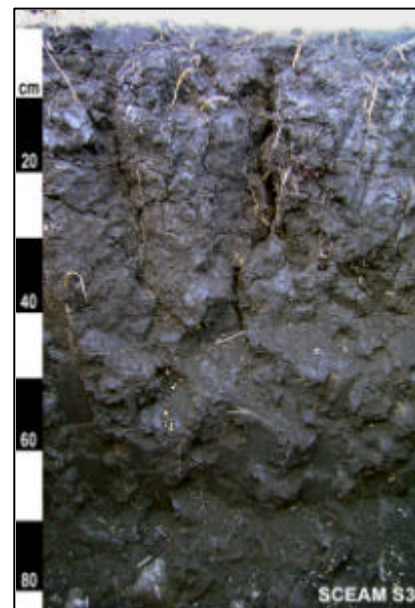
**ASC Confidence:**

All necessary analytical data are available.

**Site Disturbance:** Cultivation. Irrigated, past or present

**Vegetation:** Pasture/ crop

**Surface Coarse Fragments:** None



**Profile Morphology**

A11p 0 - 0.03 m Black (10YR2/1-Moist); Light clay; Weak grade of structure, <2 mm, Granular; Dry; Strong consistence; Very plastic; Normal plasticity; Slightly sticky; Few, coarse (>5mm) roots; Sharp, Smooth change to -  
 A12 0.03 - 0.48 m Black (10YR2/1-Moist); Light medium clay; Moderate grade of structure, 200-500 mm, Columnar; Moderate grade of structure, 100-200 mm, Angular blocky; Rough-ped fabric; Coarse, (10 - 20) mm crack; Very coarse, (20 - 50) mm crack; Dry; Very strong consistence; Very plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Common cutans, 10-50% of ped faces or walls coated, faint; Common, very fine (0-1mm) roots; Few, coarse (>5mm) roots; Clear, Wavy change to -  
 A13 0.48 - 0.77 m Black (10YR2/1-Moist); Medium clay (Heavy); Weak grade of structure, 100-200 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; Very plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Common cutans, 10-50% of ped faces or walls coated, faint; Few, very fine (0-1mm) roots;

**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					
S36	0	to 75 mm	6.03	6.5	5.7	0.14	42.02	18.68	1.01	0.54	62.38	1.62	43.20	0.49	222
	150	to 225 mm	4.28	6.9	6.0	0.10	37.99	19.61	0.91	0.34	58.99	1.54	13.30	0.34	136
	250	to 450 mm	3.38	6.3	5.8	0.08	12.27	3.43	0.28	0.23	16.34	1.71	19.70	0.28	123
	500	to 750 mm	0.84	6.7	5.2	0.03	8.11	2.08	0.24	0.09	10.97	2.19	1.30	0.06	40