

**Project Name:** SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania  
**Project Code:** SCEAM **Site ID:** N44 **Observation ID:** 1  
**Agency Name:** TAS Department of Primary Industries and Water

**Site Information**

**Desc. By:** Heather Hawkins  
**Date Desc.:** 05/06/06  
**Map Ref.:**  
**Northing/Long.:**  
**Easting/Lat.:**

**Locality:** Rosevears  
**Elevation:** 48 metres  
**Rainfall:** 797  
**Runoff:** Moderately rapid  
**Drainage:** Imperfectly drained

**Geology**

**Exposure Type:** Soil pit  
**Geol. Ref.:** Jurassic Dolerite

**Conf. Sub. is Parent. Mat.:** Certain  
**Substrate Material:** Dolerite

**Land Form**

**Rel/Slope Class:** Rolling low hills 30-90m 10-32%  
**Morph. Type:** Mid-slope  
**Elem. Type:** Hillslope  
**Slope:** 23 %

**Pattern Type:** Hills  
**Relief:** No Data  
**Slope Category:** Moderately inclined  
**Aspect:** 324 degrees

**Surface Soil Condition (dry):** Firm

**Erosion:** No Data

**Soil Classification**

**Australian Soil Classification:**  
 Mottled Eutrophic Brown Dermosol Medium Moderately gravelly Clay-loamy Clayey Moderately deep

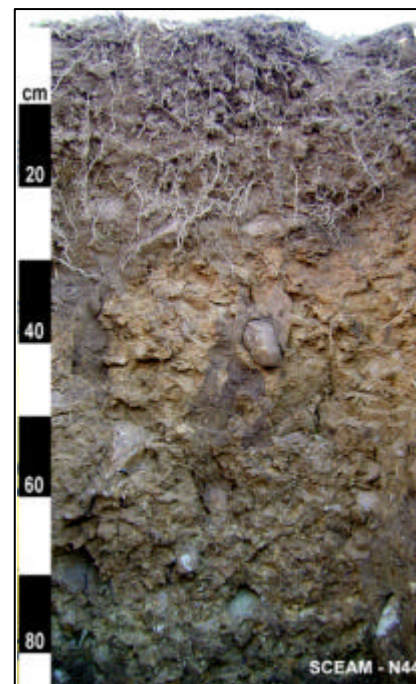
**ASC Confidence:**

All necessary analytical data are available.

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

**Vegetation:**

**Surface Coarse Fragments:** None



**Profile Morphology**

A1	0 - 0.25 m	(/-Moist); Clay loam; Strong grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Weak consistence; Slightly plastic; Normal plasticity; Slightly sticky; 20-50%, cobbly, 60-200mm, subrounded, dispersed, Dolerite, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, dispersed, Dolerite, coarse fragments; Few, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Abrupt, Irregular change to -
B2t	0.25 - 0.57 m	Strong brown (7.5YR5/6-Moist); Mechanical, 2-10%, 15-30mm, Distinct, 7.5YR3/2; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Moist; Firm consistence; Very plastic; Normal plasticity; Moderately sticky; 20-50%, cobbly, 60-200mm, subrounded, dispersed, Dolerite, coarse fragments; 20-50%, cobbly, 60-200mm, subrounded, dispersed, Dolerite, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Irregular change
BC	0.57 - 0.9 m	Brown (7.5YR4/4-Moist); Substrate influence, 20-50%, 5-15mm, Distinct, 10YR7/6; Light clay; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Moderately moist; Strong consistence; Slightly plastic; Normal plasticity; Very sticky; 20-50%, cobbly, 60-200mm, subrounded, dispersed, Dolerite, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, dispersed, Dolerite, coarse fragments; 90-100%, medium gravelly, 6-20mm, angular, dispersed, Dolerite, coarse fragments;

**Chemistry Data**

N44

			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					
0	to	75 mm	3.66	6.5	5.9	0.08	21.76	8.90	0.22	1.45	32.39	0.68	29.80	0.43	565
125	to	200 mm	3.06	6.4	5.6	0.06	15.82	7.19	0.22	0.89	24.17	0.91	11.50	0.34	366
320	to	500 mm	0.82	6.8	5.7	0.08	14.44	21.47	0.73	0.34	37.03	1.97	0.80	0.11	132
600	to	900 mm	0.49	7.3	6.1	0.08	14.45	24.88	1.60	0.32	41.28	3.88	1.00	0.08	120