

Project Name: SCEAM - Soil Condition Evaluation & Monitoring Project, Tasmania
Project Code: SCEAM **Site ID:** N41 **Observation ID:** 1
Agency Name: TAS Department of Primary Industries and Fisheries

Site Information

Desc. By:	R. Moreton	Locality:	Sand Paddock, Scone, Near Perth
Date Desc.:	14/07/06	Elevation:	149 metres
Map Ref.:	GPS S.A. Off	Rainfall:	619
Northing/Long.:	5393770 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	515383 Datum: GDA94	Drainage:	Well drained

Geology

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

Landform

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Alluvial plain
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Dune	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	290 degrees

Surface Soil Condition Soft

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Ferric Chernic Tenosol Thick Non-gravelly Sandy Clayey Deep		Principal Profile Form:	N/A

ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

Site Disturbance

Vegetation

Surface Coarse Fragments No surface coarse fragments

Profile Morphology

A11	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); ; Moderately moist; Non-plastic; Slightly sticky; Many, very fine (0-1mm) roots; Gradual, Smooth change to -
A12	0.12 - 0.4 m	Dark brown (10YR3/3-Moist); ; Moderately moist; Non-plastic; Slightly sticky; Common, very fine (0-1mm) roots; Clear, Wavy change to -
A2	0.4 - 0.7 m	Dark yellowish brown (10YR3/4-Moist); Mottles, 10YR44, 2-10% , 5-15mm, Faint; Moderately moist; Non-plastic; Slightly sticky; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B2	0.7 - 0.9 m	Strong brown (7.5YR4/6-Moist); Mottles, 7.5YR58, 2-10% , 15-30mm, Prominent; Mottles, 7.5YR56, 2-10% , 5-15mm, Prominent; Moderately moist; Slightly plastic; Slightly sticky; Abrupt, Wavy change to -
B3	0.9 - m	; Moderately moist;

Morphological Notes

Observation Notes

Pasture.

Site Notes

Mode of Geomorphic Activity: Eroded or Aggraded, Agent: Wind. No inundation.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.075	6.7C	0.113A	6.19A	0.83	0.38	0.38	0.03D		7.82B	

	7.2A						0G		
0.15 - 0.225	5.5C 6.5A	0.069A	2.49A	0.45	0.22	0.38	0.04A 0.04D 0G 0.08A	3.62B	
0.4 - 0.7	6.3C 6.9A	0.034A	1.23A	0.36	0.08	0.2	0.01D 0G 0.02A	1.89B	
0.7 - 0.9	6.5C 7.4A	0.054A	1.8A	2.37	0.14	0.47	0.01D 0G 0.03A	4.81B	

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³				%	
0 - 0.075		1.81B	39H		0.17D							
0.15 - 0.225		1.19B	20.3I 24H		0.19D							
0.4 - 0.7		0.13B	13.2I 5H		0.06D							
0.7 - 0.9		0.11B	2.1I 4H 0.8I		0.02D							

Laboratory Analyses Completed for this profile

10B_NR	Extractable sulfur (mg/kg) - Not recorded
12_NR_FE	Total element - Fe(%) - Not recorded
12A1_CU	DTPA - extractable copper, zinc, manganese and iron
12A1_FE	DTPA - extractable copper, zinc, manganese and iron
12A1_MN	DTPA - extractable copper, zinc, manganese and iron
12A1_ZN	DTPA - extractable copper, zinc, manganese and iron
12C1	Calcium chloride extractable boron - manual colour
15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_K for soluble	salts Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG for soluble	salts Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15G_C_AL2 By AAS	salts Exchangeable aluminium - meq per 100g of soil - Aluminium By KCl extraction and detremination
15G1	Exchange acidity (hydrogen and aluminium) by 1M potassium chloride
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
15N1	Exchangeable sodium percentage (ESP)
18A1	Bicarbonate-extractable potassium
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension

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4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
6B2	Total organic carbon - high frequency induction furnace, volumetric
7A5	Total nitrogen - high frequency induction furnace, thermal conductivity
7C1a	Ammonium-N, in presence or absence of nitrite
7C1b	(Nitrate+nitrite)-N, in presence of nitrite
9B2_COL	Bicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method no
longer	
	recommended
9C2	Olsen-extractable phosphorus - automated colour