Project Name:SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaProject Code:SCEAMSite ID:C15Observation ID:1Agency Name:TAS Department of Primary Industries and Fisheries

Site Information

Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	D.B. Kidd 21/04/05 GPS S.A. Off	Locality: Elevation: Rainfall: Runoff: Drainage:	Trowutta, forest 175 metres 1384 Moderately rapid Moderately well drained		
<u>Geology</u> ExposureType: Geol. Ref.:	Soil pit Tb	Conf. Sub. is Pare Substrate Material			
<u>Landform</u> Rel/Slope Class:	Gently undulating plains <9m 1-3	%	Pattern Type:	No Data	
Morph. Type: Elem. Type: Slope:	Mid-slope Hillslope 8 %	Relief: Slope Category: Aspect:	No Data Very gently slope No Data	d	
Surface Soil Co Erosion Soil Classificat Australian Soil Cl Acidic Mesotrophic Clayey Moderately ASC Confidence Confidence level Site Disturbance Vegetation Surface Coarse Profile Morpho O 0 - 0.02 r Smooth change Ap 0.02 - 0.2 10-20 mm, Medium, (5 - 10) Weak consistence; fine (1-2mm) to -	ion lassification: c Brown Ferrosol Medium Non-grav deep : not specified : Fragments No surface coars logy n Organic Layer; , 0-0% ; Light to -	relly Clayey Princi Great se fragments ht clay; Moderately m R4/6-Moist); , 0-0% ; ate grade of structure, er 100mm2) Fine (1-2 plasticity; Slightly stic	Light clay; Moderat 2-5 mm, Granular; 2mm) macropores, I cky; Field pH 5.6 (pl	e grade of structure, Rough-ped fabric; Moderately moist; H meter); Common,	
B1 0.22 - 0.5 50 mm, fabric; Moderately - 2 %), roots; Diffuse, B2 0.56 - 1.0 Moderate grade Rough-ped walls coated, to -	Polyhedral; Moderate grade moist; Weak consistence; M Ferruginous, Medium (2 -6 Smooth change to -	e of structure, 10-20 r Moderately plastic; No mm), Nodules; Field oist); Mottles, 5YR46, lyhedral; Moderate gr irm consistence; Com	nm, Subangular blo prmal plasticity; Slig pH 5.3 (pH meter); , 2-10% , 0-5mm, F ade of structure, 10 mon cutans, 10-50	ocky; Rough-ped htly sticky; Very few (0 Few, fine (1-2mm) aint; Medium clay; 0-20 mm, Polyhedral; % of ped faces or	

Morphological Notes

Observation Notes

Site Notes

Property owner Gunns.

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Laboratory Test Results:

Depth	рН	1:5 EC	E Ca	xchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		5		Cmol				%
0 - 0.075	4.4C 5.3A	0.056A	3.56A	0.6	0.32	0.16	0.3895D 0.57G 1.27175A		5.91175B	
0.2 - 0.275	4.5C 5.4A	0.052A	3.66A	0.59	0.32	0.15	0.2885D 0.54G 0.8845A		5.6045B	
0.35 - 0.45	4.9C 5.4A	0.05A	1.54A	0.43	0.43	0.04	0.12345D 0.61G 0.26525A		2.70525B	
0.6 - 0.8	5.1C 5.4A	0.048A	2.53A	0.6	0.2	0.07	0.14665D 0.25G 0.2155A		3.6155B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	ا GV	Particle Size Analysis CS FS Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3		%
0 - 0.075		4.77B	81H 0I		0.34D				
0.2 - 0.275		4.53B	38H 0I		0.28D				
0.35 - 0.45		0.95B	1H 1.1I		0.1D				
0.6 - 0.8		0.59B	1H 0.9I		0.07D				

Laboratory Analyses Completed for this profile

10B_NR 12_NR_FE 12A1_CU 12A1_FE 12A1_MN 12A1_ZN 12C1 15_NR_AL 15_NR_H 15A1_CA for soluble	Extractable sulfur (mg/kg) - Not recorded Total element - Fe(%) - Not recorded DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron Calcium chloride extractable boron - manual colour Aluminium Cation - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15G_C_AL2 By AAS	Exchangeable aluminium - meq per 100g of soil - Aluminium By KCI 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)

- Exchangeable sodium percentage (ESP) Bicarbonate-extractable potassium EC of 1:5 soil/water extract pH of 1:5 soil/water suspension
- 15N1 18A1 3A1 4A1

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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

recommended Olsen-extractable phosphorus - automated colour