Project Name:SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaProject Code:SCEAMSite ID:N39Observation ID:1Agency Name:TAS Department of Primary Industries and Fisheries

Site Information

Date Desc.: Map Ref.: Northing/Long.:	H. Hawkins 17/07/06 GPS S.A. Off 5364670 AMG zone: 55 528704 Datum: GDA94	Locality: Elevation: Rainfall: Runoff: Drainage:	Winton, near Epping Forest 160 metres 545 Slow Moderately well drained						
	Soil pit No Data	Conf. Sub. is Parent. Mat.: No Data Substrate Material: No Data							
Morph. Type: Elem. Type:	Level plain <9m <1% Flat Plain 0 %	Pattern Type: Relief: Slope Category: Aspect:							
Surface Soil Cor	ndition Firm								
Erosion									
Soil Classification	on								
Australian Soil Cla Basic Regolithic Cla gravelly Sandy San	ass Undetermined Tenosol Medium		ng Unit: pal Profile Form:	N/A N/A					
ASC Confidence:	dy Doop	Great	Soil Group:	N/A					
	rtical data are available.								
Site Disturbance	2								
Vegetation Surface Coarse	Fragments No surface coars	se fragments							
Profile Morpholo		se nagments							
A1 0 - 0.19 m		3-Moist); , 0-0% ; Loa	amy sand; Weak gra	ade of structure, 10-20					
mm,	Subangular blocky: Wook g	rada of structura 5 1		blocky: Sandy (grains					
prominent)	Subaligulai biocky, weak g	Subangular blocky; Weak grade of structure, 5-10 mm, Subangular blocky; Sandy (grains							
macroporos	fabric; Fine, (0 - 5) mm crac	fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm)							
macropores,	Moderately moist; Very wea	Moderately moist; Very weak consistence; Non-plastic; Non-sticky; Few, very fine (0-							
1mm) roots;	Common fine (1-2mm) root								
_	Common, fine (1-2mm) roots; Abrupt, Tongued change to -								
B21 0.19 - 0.48 Clayey sand; Single		Yellowish red (5YR4/6-Moist); Biological mixing, 5YR33, 2-10%, 5-15mm, Distinct; grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine							
(0.075-1mm)	0 0								
very fine (0-		macropores, Moderately moist; Very weak consistence; Non-plastic; Slightly sticky; Few, 1mm) roots; Clear, Smooth change to -							
B22 0.48 - 0.89	, .								
B22 0.48 - 0.89 Sandy (grains	(Yellowish red (5YR5/8-Moist); , 0-0% ; Clayey sand; Single grain grade of structure;							
Few, very fine	prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Slightly sticky;								
	(0-1mm) roots; Clear, Smooth change to -								
B23 0.89 - 1 m Sandy (grains	Strong brown (7.5YR4/6-Mc	Strong brown (7.5YR4/6-Moist); , 0-0% ; Clayey sand; Single grain grade of structure;							
	prominent) fabric; Moderate	prominent) fabric; Moderately moist; Very weak consistence; Non-plastic; Slightly sticky;							
Morphological N B22 89cm N39D	lotes Roots thinker with depth tho	ugh remained <1mm	. Sample 48-68cm I	N39C. Sampled 89-					
B23 Observation Not	N39E sampled 89-100cm								

Observation Notes Substrate Wind Blown Sands, Qd or Qg

Site Notes

Inundation frequency: None. Mode of geomorphic activity: Eroded or Aggraded by Sheet Wash.

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	•••	9			(+)/kg			%
0 - 0.075	5C 5.6A	0.056A	3.79A	0.61	0.33	0.06	0.04D 0.03G 0.08A		4.87B	
0.2 - 0.275	6C 6.7A	0.044A	2.98A	0.74	0.3	0.03	0.01D 0G 0.06A		4.11B	
0.48 - 0.68	6.4C 6.8A	0.028A	2.21A	0.62	0.33	0.11	0.01D 0G 0.02A		3.29B	
0.69 - 0.89	6.5C 6.8A	0.028A	1.98A	0.65	0.13	0.11	0.01D 0G 0.02A		2.89B	
0.89 - 1	6.9C 7A	0.045A	2.21A	1.01	0.13	0.25	0.01D 0G 0.04A		3.64B	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	F GV	Particle Size Ana CS FS	alysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.075		1.22B	23H 10.9I		0.11D					
0.2 - 0.275		0.49B	8H 4.4I		0.05D					
0.48 - 0.68		0.25B	3H 0.9I		0.02D					
0.69 - 0.89		0.19B	2H 0.9I		0.02D					
0.89 - 1		0.18B	2H 0.9I		0.02D					

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 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
15G_C_AL2 By AAS	salts Exchangeable aluminium - meq per 100g of soil - Aluminium By KCI extraction and detremination
15G1	Exchange acidity (hydrogen and aluminium) by 1M potassium chloride

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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
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