Project Name:SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaProject Code:SCEAMSite ID:N11Observation ID:1Agency Name:TAS Department of Primary Industries and Fisheries

Site Information

Site Informatio	n									
Desc. By:		oreton	Locality:		Nearest town, Wynaleah.					
Date Desc.:	12/07			Elevation: 171 metre						
Map Ref.:		S.A. Off 503 AMG zone: 55	Rainfall: Runoff:		1066 Moderati	alv rapid				
Northing/Long.: Easting/Lat.:		78 Datum: GDA94	Drainage:		Moderate	ely rapid ely well di	rained			
•	0/01		Dramage.		moderati	ory won a	anou			
<u>Geology</u> ExposureType:	Soil	oit	Conf. Sub.	ic Paro	nt Mati	Almost	certain or certain			
Geol. Ref.:	Tb	5h	Substrate				No Data			
	1.0		Cuboliato	matoria		Con pit,	No Data			
Landform Rel/Slope Class:	Und	ulating low hills 30-90m 3-10%	6 Pattern Ty	Pattern Type: Hills						
Morph. Type:		ble-slope	Relief:							
Elem. Type:	Hills	ope	Slope Cate	egory:						
Slope:	2 %	A <i>t</i>	Aspect:		250 degi	rees				
Surface Soil Co										
Erosion Stab	le, Min	or (sheet)								
Soil Classificat	tion									
Australian Soil C	lassifi	cation:		Маррі	ng Unit:		N/A			
		Brown Dermosol Medium Slig	htly gravelly		•	Form:	N/A			
Clay-loamy Claye			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
ASC Confidence	:			Great	Soil Grou	p:	N/A			
All necessary and	alytical	data are available.								
Site Disturband	ce									
Vegetation										
Surface Coarse	e Frac	gments 0-2%, cobbly, 60	-200mm							
Profile Morpho										
A1 0 - 0.19		Very dark greyish brown (10	VP3/2-Moist	t)· 0_0ø		am: Mode	rate grade of			
structure, 5-10 mm		very dark greyish brown (10	511(3/2-10013)	i), , 0-07	0, Clay 106	ann, moue	alle grade of			
	,	Angular blocky; Moderate g	rade of struc	ture, 2-5	i mm, Ang	ular block	y; Rough-ped fabric;			
Few (<1 per										
alsoffs Newsol		100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Moderately								
plastic; Normal		plasticity; Slightly sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Basalt, coarse								
fragments; Few		prasticity, originary sticky, 0-270, the gravery, 2-011111, drigular, disperseu, dasall, coalse								
- J		(2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Cultivation pan, Weakly cemented,								
Continuous,		Massive; Field pH 6.8 (pH meter); Common, very fine (0-1mm) roots; Clear, Irregular								
ah an na ta		Massive; Field pH 6.8 (pH n	neter); Comn	non, ver	y fine (0-1r	mm) roots	s; Clear, Irregular			
change to -										
B11 0.19 - 0.1	35 m	n Brown (10YR4/3-Moist); Mottles, 10YR44, 2-10% , 5-15mm, Distinct; Silty clay loam;								
Moderate grade of										
(0.075.4		structure, 2-5 mm, Angular blocky; Rough-ped fabric; Few (<1 per 100mm2) Very fine								
(0.075-1mm)	0	macropores, Moist; Weak c	onsistence; S	Slightly p	plastic; Nor	rmal plast	icity; Moderately			
sticky; Common (10	U	- 20 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6.9 (pH meter); Few, very								
fine (0-1mm)		roots; Gradual, Wavy change to -								
B12 0.35 - 0.3 clay; Moderate	85 m	Dark greyish brown (10YR4	/2-Moist); Mo	ottles, 10	0YR44, 0-2	2% , 5-15	mm, Distinct; Light			
		grade of structure, 2-5 mm, Angular blocky; Rough-ped fabric; Moist; Weak consistence;								
Slightly plastic;		Normal plasticity; Moderate	lv sticky: Cor	nmon (1	0 - 20 %)	Ferrugio	ous Medium (2-6			
mm), Nodules;		reaction, moderate	, ouory, OOI		5 <u>2</u> 5 /0),	. on ugint				
,,,		Field pH 6.4 (pH meter); Fe	w, very fine (0-1mm)	roots; Gra	idual, Sm	ooth change to -			
				,			-			
	1 m	Dark vollowich brown (40)/	DA/A Maiath	Viottlaa	107046 0) 70/ E 4	5mm Dictingt: Light			
B2 0.85 - 1. clay; Weak	1 [1]	Dark yellowish brown (10YR4/4-Moist); Mottles, 10YR46, 0-2% , 5-15mm, Distinct; Light								
oray, would		grade of structure, 2-5 mm, Angular blocky; Rough-ped fabric; Moist; Weak consistence;								
Slightly plastic;		J		<i>,</i> ,u	0 1 2 2 2 2	.,	, . ,			

Normal plasticity; Slightly sticky; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm),

Nodules; Field pH

6.6 (pH meter);

Morphological Notes

A1	EC, 0.2 dS/m.
B11	EC, 0.0 dS/m.
B12	EC, 0.0 dS/m. Sampled from .35 to .85m, Label N11C.
B2	EC, 0.0 dS/m. Sampled from .85 to 1.10m, Label N11D.

<u>Observation Notes</u> The abundance of Pedogenic Segregations increases with depth.

Site Notes

Property owner, Frank Wagner.

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Project Code:	SCEAM	Site ID:	N11	Observation	1
Agency Name:	TAS Depart	ment of Primar	y Indus	tries and Fisheries	

Laboratory Test Results:

Depth	рН	1:5 EC	E Ca	xchangeable Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		0		Cmol	(+)/kg			%
0 - 0.075	4.9C 5.8A	0.109A	6.6A	1.69	0.56	0.15	0.23D 0.05G 0.31A		9.31B	
0.2 - 0.275	4.6C 5.5A	0.063A	4.32A	0.83	0.21	0.12	0.24D 0.12G 0.52A		6B	
0.4 - 0.8	4.7C 5.1A	0.047A	0.42A	0.34	0.06	0.1	0.4175D 0.37G 1.13775A		2.05775B	
0.85 - 1.1	4.7C 5.2A	0.046A	0.65A	0.68	0.06	0.15	0.07625D 0.15G 0.498A		2.038B	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV CS FS Silt
m	%	%	mg/kg	%	%	%	Mg/m3	%
0 - 0.075		3.77B	62H 27.4I		0.3D			
0.2 - 0.275		2.59B	38H 16.2I		0.22D			
0.4 - 0.8		0.79B	8H 3I		0.06D			
0.85 - 1.1		0.56B	6H 2.6I		0.08D			

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 - meg per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meg per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	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)
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

recommended Olsen-extractable phosphorus - automated colour