Project Name:SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaProject Code:SCEAMSite ID:N3Observation ID:1Agency Name:TAS Department of Primary Industries and Fisheries

Site Information

Site information	_		Lessites		Duanantu	O	Devia Clark, Dressertur			
Desc. By: Marylands	R. Mo	reton	Locality:		Property	Owner: G	Bavin Clark. Property:			
Date Desc.:	21/07/	/05	Elevation:		330 metre	25				
Map Ref.:		S.A. Off	Rainfall:		1066					
Northing/Long.:		20 AMG zone: 55	Runoff:		Moderate	ly rapid				
Easting/Lat.:		8 Datum: GDA94	Drainage:		Moderate		ained			
Geology			•			•				
ExposureType:	Soil pi	it	Conf. Sub.	is Parer	nt. Mat.:	No Data	4			
Geol. Ref.:	Tb		Substrate M			No Data				
Landform	Carath		0/		Dattana 7		Dises			
Rei/Slope Class:	Gentiy	y undulating rises 9-30m 1-39	%		Pattern 1	ype:	Rises			
Morph. Type:	Mid-sl	lone	Relief:		No Data					
Elem. Type:	Bench	•	Slope Cate	aory:	Very gen	tly sloper	4			
Slope:	1 %		Aspect:	gory.	290 degr		I			
Surface Soil Co		NR .			200 009.					
	mantio	<u>11</u>								
<u>Erosion</u>										
Soil Classificati	ion									
Australian Soil Cl	assific	ation:		Mappir	ng Unit:		N/A			
		errosol Medium Non-gravelly	Clav-loamv		0	Form:	N/A			
Clayey Deep			,	.						
ASC Confidence:				Great S	Soil Group):	N/A			
All necessary ana	lytical c	data are available.				-				
Site Disturbanc										
Vegetation										
	Erear									
Surface Coarse		ments No surface coarse	e fragments							
Profile Morphol	logy									
A11 0 - 0.18 n	n	Dark brown (7.5YR3/2-Moist	t); , 0-0% ; Cl	ay loam	; Strong gr	ade of st	ructure, 2-5 mm,			
Polyhedral; Earthy										
		fabric; Few (<1 per 100mm2) macropores, Moist; Very weak consistence; 0-2%, medium								
gravelly, 6-		20mm, subangular, disperse	d Basalt co	arso fra	aments: Fi	old nH 5	9 (nH meter):			
Common, fine (1-		zomm, subangular, disperse	a, Dasan, co		ginents, ri	ciu pi i o.	o (pri motor),			
		2mm) roots; Diffuse, Smooth	n change to -							
		, .								
A12p 0.18 - 0.3	3 m	Dark brown (7.5YR3/2-Moist	t); Mechanica	al, 10YR	32, 0-2% ,	15-30mr	n, Distinct; Clay			
loam; Strong grade		of structure 5.40 mm Delubedroli Corthy febric: Servi (14 men 400mm2) measure								
Moist; Weak		of structure, 5-10 mm, Polyhedral; Earthy fabric; Few (<1 per 100mm2) macropores,								
WOISI, WEAK		consistence; Field pH 6 (pH meter); Few, fine (1-2mm) roots; Clear, Irregular change to -								
		consistence, ricia pri o (pri	meter), r ew,		211111) 1000	o, oloui,	inegular onlange to			
B11p 0.3 - 0.42	2 m	Dark brown (7.5YR3/4-Moist	t); Mechanica	ıl, 7.5YR	82.52, 0-2%	% , 15-30	mm, Distinct; Clay			
loam; Moderate						. =:	· ·			
40.0()		grade of structure, 5-10 mm,	, Polyhedral;	Earthy f	abric; Mois	st; Firm c	onsistence; Few (2 -			
10 %),		Forromongoniforoug Modiu	m (2 6 mm)	Nodulor	o. Field pU	E 0 (nU)	motor): Four yory fina			
(0-1mm)		Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 5.8 (pH meter); Few, very fine								
(0-11111)		roots; Clear, Irregular chang	e to -							
		i colo, cical, inogulai chang	0.10							
B12 0.42 - 0.7	7 m	Brown (7.5YR4/4-Moist); Mo	ottles, 5YR34	, 0-2% ,	5-15mm, l	Distinct; L	ight clay; Moderate			
grade of										
00/ aabbb 00		structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moist; Firm consistence; 0-								
2%, cobbly, 60-		200mm, subangular, dispers	ad Receit o	narse fr	aamonte. I	- 	10 %)			
Ferromanganiferous	s. Medii	um	Jou, Dasail, C		agineillo, I	UVV (Z -	· · · /0/,			
gameroud	, c an	(2 -6 mm), Nodules; Field pl	H 5.8 (pH me	eter); Cle	ear, Wavv	change to	о -			
		, <i>,,</i> ,,		,,	,,	3				
	_					_				
B2 0.7 - 0.95	ōm	Strong brown (7.5YR4/6-Mo	ist); Mottles,	10-20%	, 15-30mn	n, Promir	ient; Light medium			
clay; Strong		grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm								
consistence; Comm	on	grade of structure, 5-10 mm,	, Angular bloc	ску; 5М	ootn-ped ta	adric; MO	isi, very firm			

cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.8 (pH meter); Clear,

B3g Strong gr	0.95 - 1.17 m	Grey (10YR6/1-Moist); Mottles, 10YR56, 10-20% , 15-30mm, Prominent; Medium clay;
Strong grade of Common cutans, 10-		structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moist; Very firm consistence;
		50% of ped faces or walls coated, prominent; Field pH 5.6 (pH meter);

Wavy change to -

Morphological NotesB2Emerson Dispersion: SlakeB30Emerson Dispersion: Slake

Observation Notes

Vegetation was pasture sprayed and dead. Substrate was not reached

Site Notes

Geomorphic Activity: Aggraded. Geomorphic agent: Volcanic.

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ja	wig	ĸ	Cmol				%
0 - 0.075	5.3C 6.2A	0.07A	12.35A	4.17	1.64	0.1	0.05D 0.05G 0.1A		18.36B	
0.2 - 0.275	5.2C 6A	0.042A	10.13A	3.57	0.85	0.09	0.05D 0.06G 0.1A		14.74B	
0.7 - 0.95	5.4C 5.7A	0.028A	4.48A	2.33	0.13	0.08	0.01705D 0.02G 0.02705A		7.04705B	
0.95 - 1.17	4.3C 5.1A	0.023A	2.8A	4.01	0.13	0.09	0.354625D		8.373875B	
							0.19G			

1.343875A

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV I	Particle Size Analysis CS FS Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3		%
0 - 0.075		4.21B	138H 41.5I		0.38D				
0.2 - 0.275		3.42B	74H 22.7I		0.32D				
0.7 - 0.95		0.48B	9H 3.5I		0.05D				
0.95 - 1.17		0.38B	7H 2.8I		0.05D				

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 15A1 CA	Hydrogen Cation - meq per 100g of soil - Not recorded 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 15N1	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) Exchangeable sodium percentage (ESP)
18A1	Bicarbonate-extractable potassium
3A1	EC of 1:5 soil/water extract
0,11	

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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