Project Name:SCEAM - Soil Condition Evaluation & Monitoring Project, TasmaniaProject Code:SCEAMSite ID:C9Observation ID:1Agency Name:TAS Department of Primary Industries and Fisheries

Site Information

Site Information		oroton		Droporty Owner	Dishard Clinglaffar			
Desc. By: Property near	R. M	oreton	Locality:	Property Owner:	Richard Clingleffer.			
r topenty near				Somerset				
Date Desc.:	11/11	1/05	Elevation:	140 metres				
Map Ref.:		S.A. Off	Rainfall:	1154				
Northing/Long.:		465 AMG zone: 55	Runoff:	Moderately rapid				
Easting/Lat.:	3993	99 Datum: GDA94	Drainage:	Well drained				
<u>Geology</u>								
ExposureType:	Soil p	bit	Conf. Sub. is Par					
Geol. Ref.:	Tb		Substrate Materi	al: No Dat	ta			
<u>Landform</u> Rel/Slope Class:	Undu	ulating low hills 30-90m 3-10%	6 Pattern Type:	Low hills				
Morph. Type:	Mid-	slope	Relief:	No Data				
Elem. Type:	Hills		Slope Category:		ed			
Slope:	5 %	•	Aspect:	320 degrees				
Surface Soil Co	onditi	on Soft						
		or (sheet)						
Soil Classificat								
					N1/A			
Australian Soil C				bing Unit:	N/A			
		Ferrosol Medium Non-gravelly	Clay-loamy Princ	cipal Profile Form:	N/A			
Clayey Moderately	•		0		N1/A			
ASC Confidence		data are available.	Grea	t Soil Group:	N/A			
•	•	uata ale avallable.						
Site Disturband	je							
Vegetation			0.000					
Surface Coarse		<u>iments</u> 2-10%, stony, 20	10-600mm, ,					
Profile Morpho	logy							
A1p 0 - 0.12 r	m	Dark brown (7.5YR3/4-Mois	st); , 0-0% ; Clay loa	m; Moderate grade	of structure, 2-5 mm,			
Polyhedral;		Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5)						
moderate grade of structure, 5-10 mm, Subangular blocky, Rough-ped labitic, Fine, (0 - t								
min ordon,		Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak						
consistence; Slightly								
		plastic; Moderately sticky; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -						
A2p 0.12 - 0.2	2 m	Dark brown (7.5YR3/4-Moist); Mottles, 5YR34, 2-10%, 0-5mm, Faint; Clay loam;						
Moderate grade of		= arr brown (r.5) rro(4-most), motiles, 5 rro(4, 2-10.0), 0-5 min, Faint, Ciay iOdili,						
3		structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 5-10 mm,						
Subangular blocky;								
ala a Ca		Rough-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Weak consistence; Slightly						
plastic;		Moderately sticky; Abrupt, V	Vavy change to -					
D 4 00 00	-				- • • • • • • •			
B1 0.2 - 0.35	5 M	Dark reddish brown (5YR3/4	4-Moist); Mottles, 7	.5YR34, 2-10% , 0-5	mm, Faint; Light clay;			
Strong grade		of structure, 10-20 mm, Sub	angular blocky. Mo	derate grade of strue	cture 5-10 mm			
Polyhedral; Smooth	1-		bangalar biooky, we	derate grade of stru				
,		ped fabric; Fine, (0 - 5) mm crack; Moist; Very weak consistence; Moderately plastic; Very						
sticky; Clear,								
		Smooth change to -						
B21 0.35 - 0.6	6 m	Dark reddish brown (5YR3/4	4-Moist): Mottles, 7	.5YR34. 2-10% . 5-1	5mm. Faint: Light clav:			
Strong grade			,,, , .	. , , . ,	,, <u></u> ,,,			
		of structure, 20-50 mm, Sub	oangular blocky; Mo	derate grade of strue	cture, 5-10 mm,			
Polyhedral; Smooth)-		and Martin M		Andreatable at 12 M			
eticky		ped fabric; Fine, (0 - 5) mm	crack; woist; Very	weak consistence; N	ioderately plastic; Very			
sticky;		Gradual, Smooth change to	ı -					
_								
B22 0.6 - 1 m	l	Reddish brown (5YR4/4-Mo	oist); Mottles, 7.5YR	34, 2-10% , 5-15mm	n, Faint; Light clay;			
Strong grade of								

structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm,

Polyhedral; Rough-ped

fabric; Moist; Very weak consistence; Moderately plastic; Very sticky;

Morphological Notes

A1p	Pentration resistance: Soft
A2p	Pentration resistance: Soft. Soil Sampled 12-20cm labelled C9A2
B1	Pentration resistance: Firm. Soil sampled 20-35cm labelled C9B2
B21	Pentration resistance: Stiff. Soil sampled 35-60cm labelled C9C
B22	Pentration resistance: Stiff. Soil sampled 60-100cm, labelled C9D

Observation Notes

Soil class: Lapoinya. Substrate not reachde, believed to be Basalt. There was no vegetation, the area was fallow and had been prepared for planting. Inundation freqency: no inundation. Erosion occurs to a depth of 2cm

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Site Notes

Pit is immediately south of transect start,

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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	Ga	mg	ĸ		(+)/kg			%
0 - 0.075	5.3C 6A	0.066A	11.7A	2.95	1.25	0.16	0.2D 0.08G 0.23A		16.29B	
0.12 - 0.2	5.1C 5.9A	0.054A	8.22A	1.97	0.87	0.12	0.05D 0.96G 0.09A		11.27B	
0.2 - 0.275	4.9C 5.6A	0.102A	8.1A	2.71	0.7	0.23	0.1D 0.16G 0.25A		11.99B	
0.2 - 0.35	5C 5.6A	0.06A	4.94A	1.25	0.45	0.11	0.05D 0.53G 0.08A		6.83B	
0.35 - 0.6	5.5C 5.7A	0.07A	4.89A	1.66	0.3	0.12	0.02D 0.28G 0.03A		7B	
0.6 - 1	4.8C 5.5A	0.052A	4.46A	1.39	0.28	0.13	0.04D 0.39G 0.07A		6.33B	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	F GV	Particle CS	Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.075		4.68B	134H 38.7I		0.44D						
0.12 - 0.2		3.93B	65H 18.8I		0.42D						
0.2 - 0.275		3.83B	58H 15.9I		0.34D						
0.2 - 0.35		2.17B	8H 2.1I		0.24D						
0.35 - 0.6		1.51B	3H 0.7I		0.18D						
0.6 - 1		1.72B	4H 1.1I		0.2D						

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

15A1_MG for soluble

salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts

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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 15J_H 15N1 3A1 4A1 4B2 6B2 7A5 7C1a 7C1b 9B2_COL longer	Exchange acidity (hydrogen and aluminium) by 1M potassium chloride 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 pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 Total organic carbon - high frequency induction furnace, volumetric Total nitrogen - high frequency induction furnace, thermal conductivity Ammonium-N, in presence or absence of nitrite (Nitrate+nitrite)-N, in presence of nitrite Bicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method no recommended
9C2	Olsen-extractable phosphorus - automated colour