Project Name:	SCEAM - So	oil Condition E	valuation	& Monitoring Project, Tasmania
Project Code:	SCEAM	Site ID:	N31	Observation ID: 1
Agency Name:	TAS Depart	ment of Primar	y Industri	es and Fisheries

# Site Information

Site Informatio	n				
Desc. By:	D.B. Kidd	Locality:	Diddleum Plains Plantation		
Date Desc.: Map Ref.:	07/03/06 GPS S.A. Off	Elevation: Rainfall:	600 metres 1200		
	5427077 AMG zone: 55	Runoff:	Slow		
Easting/Lat.:	539247 Datum: GDA94	Drainage:	Moderately well drained		
<u>Geology</u>					
ExposureType:	Soil pit	Conf. Sub. is Par			
Geol. Ref.: porous, , Granite	Gn	Substrate Materia	al: Soil pit, 1.3 m deep,Slightly		
,,,					
Landform					
	Undulating hills 90-300m 3-10%		Hills		
Morph. Type: Elem. Type:	Mid-slope Hillslope	Relief: Slope Category:	No Data Cently inclined		
Slope:	6 %	Aspect:	Gently inclined 23 degrees		
Surface Soil C	ondition Loose	•	0		
shee	vind erosion (wind); No scalding (s et erosion (sheet) No wave erosion ion (rill) No mass movement (mass ion (gully) No stream bank erosion	i (wave) No rill s) No gully			
Soil Classifica Australian Soil C		Moon	ing Unit: N/A		
	etermined Brown Dermosol Mediu		5		
ASC Confidence		Great	t Soil Group: N/A		
Analytical data a	re incomplete but reasonable confi	idence.			
Site Disturban	<u>ce</u>				
Vegetation					
Surface Coars		arse fragments			
Profile Morpho A11 0 - 0.12 mm, Granular;		2-Moist); ; Loamy coa	rse sand; Moderate grade of structure, 2-5		
(1-2mm)	Moderate grade of structu	ure, <2 mm, Granular;	Earthy fabric; Few (<1 per 100mm2) Fine		
· · ·		moist; Weak consister	nce; Non-plastic; Non-sticky; ,		
Uncemented; Com	mon, very fine (0-1mm) roots; Clear	r, Smooth change to -			
A12 0.12 - 0. mm, Subangular			rse sand; Strong grade of structure, 5-10		
Medium (2-			nular; Earthy fabric; Few (<1 per 100mm2) nsistence; Non-plastic; Slightly sticky; 2-		
10%, medium			I, coarse fragments; , Uncemented; , very		
fine (0-1mm)	roots; Clear, Smooth char	nge to -			
A3 0.26 - 0. mm,	44 m Very dark brown (10YR2/	2-Moist); ; Loamy coa	rse sand; Strong grade of structure, 10-20		
fabric; Few (<1	Subangular blocky; Stron	g grade of structure, 5	-10 mm, Subangular blocky; Smooth-ped		
plastic;	. , .	, .	oderately moist; Weak consistence; Non-		
change to -	Moderately sticky; , Unce	mented; Many, very fi	ne (0-1mm) roots; Gradual, Smooth		
AB 0.44 - 0.	6 m Dark brown (10YR3/3-Mo	oist); ; Clay loam, coars	se sandy; Moderate grade of structure, 20-		
50 mm,	Subangular blocky: Mode	arate grade of structure	e, 5-10 mm, Subangular blocky; Smooth-		
ped fabric; Few	Subangulai blocky, MOUE	are grade of Shucidit	, o to mini, oubangular blocky, omoolin-		

Moderately plastic;	(<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence;				
	Subplastic; Slightly sticky; , Uncemented; Many, very fine (0-1mm) roots; Common, very				
fine (0-1mm)	roots; Gradual, Smooth change to -				
B1 0.6 - 0.75 m	Strong brown (7.5YR4/6-Moist); Biological mixing, 10YR33, 2-10% , 5-15mm, Distinct;				
Coarse sandy	light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of				
structure, 5-10	mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence;				
Moderately plastic;	Subplastic; Moderately sticky; , Uncemented; Gradual, Smooth change to -				
B2t 0.75 - 0.92 m	Strong brown (7.5YR4/6-Moist); ; Coarse sandy light clay; Moderate grade of structure,				
20-50 mm,	Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-				
ped fabric;	Moderately moist; Firm consistence; Very plastic; Subplastic; Very sticky; , Uncemented;				
Gradual,	Smooth change to -				
BC 0.02 - 1.2 m	Strong brown (7.5YR5/8-Moist); ; Coarse sandy light clay; Massive grade of structure;				
Smooth-ped	fabric; Moderately moist; Firm consistence; Very plastic; Subplastic; Very sticky; ,				
Uncemented;					

### **Morphological Notes**

A3	N31C = 30 - 40 cm
AB	N31D = 50 - 60 cm
B1	N31E = 60 - 75 cm
B2t	N31F = 80 - 90 cm

## **Observation Notes**

### Site Notes

Forest Enterprises Tasmania - Logged coupe - ripped, mounded, planted and fertilsed

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### Laboratory Test Results:

Depth	рН	1:5 EC		nangeable Ag	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (				%
0 - 0.075	4.4C 5.3A	0.038A	1.29A	0.57	0.24	0.1	0.71D 3.47G 4.09A		6.29B	
0.15 - 0.225	4.4C 5.4A	0.032A	1.21A	0.47	0.22	0.09	0.595D 2.94G 3.7775A	Ę	5.7675B	
0.3 - 0.4	4.3C 5A	0.055A	0.52A	0.31	0.15	0.09	0.8D 2.49G 3.44A		4.51B	
0.5 - 0.6	4.4C 5.4A	0.024A	0.3A	0.18	0.09	0.09	0.55D 1G 2.64A		3.3B	
0.6 - 0.75	4.3C 5.3A	0.025A	0.21A	0.17	0.07	0.07	0.42D 0.79G 2.39A		2.91B	
0.8 - 0.9	4.4C 5.2A	0.025A	0.23A	0.22	0.07	0.07	0.36D 1.01G 1.79A		2.38B	
Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Tota K	al Bulk Density	Particle GV CS	Size Anal FS S	
m	%	%	mg/kg	%	%	%	Mg/m3		%	

0 - 0.075	8.44B	28H 8.7I	0.55D
0.15 - 0.225	7.02B	24H 8.8I	0.47D
0.3 - 0.4	6.75B	10H 4.2I	0.38D
0.5 - 0.6	4.09B	4H 2.2I	0.24D
0.6 - 0.75	1.89B	3H 1.6I	0.15D
0.8 - 0.9	0.8B	2H 0.8I	0.07D

### 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	Hydrogen Cation - meq 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	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts

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15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15G C AL2	salts
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
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