

Project Name: Dandaragan land resources survey
Project Code: DAN **Site ID:** 0854 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	B. Purdie	Locality:	
Date Desc.:	17/05/96	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6607771 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	379520 Datum: AGD84	Drainage:	Rapidly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	315 degrees

Surface Soil Condition Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Arenic Orthic Tenosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse

Profile

A1p 0 - 0.25 m	Dark brown (7.5YR3/3-Moist); ; Clayey sand; Weak grade of structure, 2-5 mm, ; Moist; Very weak
	consistence; Field pH 5.3 (pH meter); Few, fine (1-2mm) roots; Gradual, Smooth change to -
B21w 0.25 -	
prominent) fabric;	
Gradual, Smooth	Moderately moist; Weak consistence; Field pH 5.1 (pH meter); Few, fine (1-2mm) roots; change to -
B22w 0.4 - 0.65 m	Yellowish red (5YR4/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent)
roots; Gradual,	fabric; Moderately moist; Weak consistence; Field pH 5.8 (pH meter); Few, fine (1-2mm) Smooth change to -
B23w 0.65 - 1.9 m	Yellowish red (5YR4/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent)
roots; Gradual,	fabric; Moderately moist; Weak consistence; Field pH 5.4 (pH meter); Few, fine (1-2mm) Smooth change to -
B24w 1.9 - 2.2 m	Strong brown (7.5YR4/6-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Clayey sand; Massive
(pH meter);	grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; Field pH 6 Few, fine (1-2mm) roots;

Morphological Notes

A1p Compaction layer or moisture front at 15 cm

Observation Notes

Site Notes

soak 50 m upslope--few medium roots and root channels to 1 m filled with A horizon material--clay at 280 cm

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.25	4.6B 5.3H	8B	1.58H	0.23	0.09	0.09	0.23J		1.99D	
0 - 0.25	4.6B 5.3H	8B	1.58H	0.23	0.09	0.09	0.23J		1.99D	
0.09 - 0.13										
0.25 - 0.4	4.4B 5.3H	2B	0.71H	0.18	0.08	0.06	0.44J		1.03D	
0.25 - 0.4	4.4B 5.3H	2B	0.71H	0.18	0.08	0.06	0.44J		1.03D	
0.3 - 0.34										
0.4 - 0.65	4.5B 5.4H	2B	0.52H	0.2	0.08	0.05	0.26J		0.85D	
0.4 - 0.65	4.5B 5.4H	2B	0.52H	0.2	0.08	0.05	0.26J		0.85D	
0.47 - 0.51										
0.65 - 1.2	4.5B 5.4H	2B	0.5H	0.19	0.07	0.04	0.12J		0.8D	
0.65 - 1.2	4.5B 5.4H	2B	0.5H	0.19	0.07	0.04	0.12J		0.8D	
0.98 - 1.02										
1.2 - 1.9										
1.55 - 1.59										
1.9 - 2.2	5.6B 6.6H	2B	0.46A	0.78	0.02	0.15			1.41D	
1.9 - 2.2	5.6B 6.6H	2B	0.46A	0.78	0.02	0.15			1.41D	
2.18 - 2.22										

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS	Analysis Silt
0 - 0.25		0.84D		226B	0.068E					1.3
5.7										
0 - 0.25		0.84D		226B	0.068E					1.3
5.7										
0.09 - 0.13							1.56			
0.25 - 0.4		0.26D		127B	0.018E					1.6
6.1										
0.25 - 0.4		0.26D		127B	0.018E					1.6
6.1										
0.3 - 0.34							1.49			
0.4 - 0.65		0.15D		124B	0.014E					1.2
6.6										
0.4 - 0.65		0.15D		124B	0.014E					1.2
6.6										
0.47 - 0.51							1.55			
0.65 - 1.2		0.1D		117B	0.011E					1
7.2										
0.65 - 1.2		0.1D		117B	0.011E					1
7.2										
0.98 - 1.02							1.61			
1.2 - 1.9										
1.55 - 1.59							1.72			
1.9 - 2.2		0.08D		114B	0.01E					0.9
9										
1.9 - 2.2		0.08D		114B	0.01E					0.9
9										
2.18 - 2.22							1.68			

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Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMdR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_CEC	Exchangeable bases (CEC) - 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
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
salts	
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	
	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
18A1_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)
P3A_NR	Bulk density - Not recorded