

Project Name: Dandaragan land resources survey
Project Code: DAN **Site ID:** 0837 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Ted (E.A.) Griffin	Locality:	
Date Desc.:	07/05/96	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6645733 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	362643 Datum: AGD84	Drainage:	Moderately well 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	2 %	Aspect:	225 degrees

Surface Soil Condition Loose

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

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

Vegetation:

Surface Coarse

Profile

A1h	0 - 0.1 m	Greyish brown (10YR5/2-Moist); ; Loamy fine sand; Single grain grade of structure; Dry; Strongly water repellent, "Field pH 5.7 (pH meter); Abundant, very fine (0-1mm) roots; Clear, Wavy change to -
A2	0.1 - 0.45 m	Pale brown (10YR6/3-Moist); ; Loamy fine sand; Single grain grade of structure; Moderately moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Ironstone, coarse fragments; Field pH 4.9 (pH meter); Few, very fine (0-1mm) roots; Clear, Irregular change to -
B21c	0.45 - 0.6 m	Light yellowish brown (10YR6/4-Moist); ; Fine sandy clay loam; Massive grade of structure; Moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, Ironstone, coarse fragments; 20-50%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Field pH 5.6 (pH meter); Common, very fine (0-1mm) roots; Gradual, Irregular change to -
B22	0.6 - 1.1 m	Brownish yellow (10YR6/8-Moist); Mottles, 10YR81, 20-50% , 5-15mm, Prominent; Fine sandy clay loam; Massive grade of structure; Moist; Strong consistence; Field pH 6.1 (pH meter); Few, very fine (0-1mm) roots; Clear, Wavy change to -
B23	1.1 - 1.3 m	Grey (7.5YR5/1-Moist); Mottles, 2.5YR46, 20-50% , 5-15mm, Prominent; Sandy light clay; Massive grade of structure; Moist; Strong consistence; Field pH 6.5 (pH meter);

Morphological Notes

B22 Roots following root channels of long dead native plants
 B23 Few old root channels

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	4.6B 5.3H	12B	1.87H	0.26	0.08	0.2	0.09J		2.41D	
0 - 0.1	4.6B 5.3H	12B	1.87H	0.26	0.08	0.2	0.09J		2.41D	
0.1 - 0.45	4.4B 5.1H	2B	0.11H	<0.02	<0.02	0.05	0.1J		0.18D	
0.1 - 0.45	4.4B 5.1H	2B	0.11H	<0.02	<0.02	0.05	0.1J		0.18D	
0.45 - 0.6	4.4B 5.3H	4B	0.95H	0.57	0.14	0.2	0.4J		1.86D	
0.45 - 0.6	4.4B 5.3H	4B	0.95H	0.57	0.14	0.2	0.4J		1.86D	
0.6 - 1.1	5.5B 6.3H	7B	0.84H	1.51	0.2	0.57	<0.02J		3.12D	
0.6 - 1.1	5.5B 6.3H	7B	0.84H	1.51	0.2	0.57	<0.02J		3.12D	
1.1 - 1.3	5.8B 6.9H	20B	0.84H	5.5	0.5	2.95	<0.02J		9.79D	
1.1 - 1.3	5.8B 6.9H	20B	0.84H	5.5	0.5	2.95	<0.02J		9.79D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1		1.26D		116B	0.109E			2
0 - 0.1		1.26D		116B	0.109E			2
0.1 - 0.45		0.08D		56B	0.008E			1.4
0.1 - 0.45		0.08D		56B	0.008E			1.4
0.45 - 0.6		0.29D		95B	0.032E			2.3
0.45 - 0.6		0.29D		95B	0.032E			2.3
0.6 - 1.1		0.08D		52B	0.012E			4.8
0.6 - 1.1		0.08D		52B	0.012E			4.8
1.1 - 1.3		0.13D		40B	0.014E			7.2
1.1 - 1.3		0.13D		40B	0.014E			7.2

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
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
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

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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)