

Project Name: Dandaragan land resources survey
Project Code: DAN **Site ID:** 0423 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Ted (E.A.) Griffin	Locality:	
Date Desc.:	23/08/95	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6559148 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	412899 Datum: AGD84	Drainage:	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: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	%	Aspect:	90 degrees

Surface Soil Condition

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 ; No surface coarse fragments

Profile

A1hp	0 - 0.05 m	Brown (10YR4/3-Moist); ; Fine sandy loam; Moist; 10-20%, medium gravelly, 6-20mm, subrounded,
Abrupt, Smooth		Ironstone, coarse fragments; Field pH 6.2 (pH meter); Many, very fine (0-1mm) roots; change to -
B21c	0.05 - 0.3 m	Brownish yellow (10YR6/6-Moist); ; Moist; 20-50%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Field pH 5.8
		(pH meter); Common, very fine (0-1mm) roots; Clear, Wavy change to -
B22	0.3 - 0.8 m	Strong brown (7.5YR5/6-Moist); ; Clay loam; Weak grade of structure, 2-5 mm, ; Smooth-ped fabric; Moist; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 6.1 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B23	0.8 - 0.95 m	Yellowish red (5YR5/6-Moist); Mottles, 2.5YR58, 2-10% , 5-15mm, Faint; , 2.5Y84, 10-20% , 15-30mm, Distinct; Light clay; Weak grade of structure, 2-5 mm, ; Smooth-ped fabric; Moist; Field pH 5.7 (pH meter); Few, very fine (0-1mm) roots;

Morphological Notes

B21c Sandy clay loamy gravel

Observation Notes

Site Notes

slope just down from breakaway--colluvial lateritic gravel over clay from weathered profile--sampled: 423a-d

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity	%	
0 - 0.05	5.1B 5.4H	41B	7.5H	1.1	0.06	0.15	0.08J	8.81D
0 - 0.05	5.1B 5.4H	41B	7.5H	1.1	0.06	0.15	0.08J	8.81D
0.05 - 0.3	5.1B 5.9H	3B	1.64H	0.42	0.02	0.06	0.07J	2.14D
0.05 - 0.3	5.1B 5.9H	3B	1.64H	0.42	0.02	0.06	0.07J	2.14D
0.3 - 0.8	5.4B 6.1H	4B	1.23H	1.52	<0.02	0.2	<0.02J	2.96D
0.3 - 0.8	5.4B 6.1H	4B	1.23H	1.52	<0.02	0.2	<0.02J	2.96D
0.8 - 0.95	5.4B 5.9H	5B	0.78H	2.26	<0.02	0.2	<0.02J	3.25D
0.8 - 0.95	5.4B 5.9H	5B	0.78H	2.26	<0.02	0.2	<0.02J	3.25D

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.05		2.95D		354B	0.251E						11.7
7.3											
0 - 0.05		2.95D		354B	0.251E						11.7
7.3											
0.05 - 0.3		0.55D		82B	0.035E						9.8
17.7											
0.05 - 0.3		0.55D		82B	0.035E						9.8
17.7											
0.3 - 0.8		0.28D		43B	0.016E						12
56.2											
0.3 - 0.8		0.28D		43B	0.016E						12
56.2											
0.8 - 0.95		0.25D		39B	0.01E						15.4
56.3											
0.8 - 0.95		0.25D		39B	0.01E						15.4
56.3											

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMd	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_BASIS	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
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)

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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)