

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0554 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Jaki Hogstrom	Locality:	
Date Desc.:	11/11/92	Elevation:	244 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6287040 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	484950 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:	Mid-slope	Relief:	50 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	0 degrees

Surface Soil Condition Firm

Erosion: (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Basic Arenic Bleached-Orthic Tenosol	Principal Profile Form:	Uc2.21
ASC Confidence:	Great Soil Group:	N/A

All necessary analytical data are available.

Site Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.1 m	Very dark grey (5YR3/1-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Dry; Loose
		consistence; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
A2e	0.1 - 0.7 m	White (2.5Y8/2-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Dry; Loose consistence;
		Field pH 6 (Raupach); Clear, Smooth change to -
B21w	0.7 - 1 m	Yellow (10YR7/6-Moist); , 0-0% ; Sand; Single grain grade of structure; Dry; Loose consistence; Field
		pH 6 (Raupach); Many, medium (2-5mm) roots; Clear, Wavy change to -
B22w	1 - 1.2 m	Brownish yellow (10YR6/8-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist;
		Loose consistence; 2-10%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 7.5
		(Raupach); Common, medium (2-5mm) roots;

Morphological Notes

A1	+ medium sand
A2e	+ medium sand. Sporadically moist

Observation Notes

Site Notes

'Gutless' sand - supports adequate pasture when wet (same sand on the drainage line 30M downslope has thick clover/barley grass cover).
With no cover would be prone to severe wind erosion

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg K	Na	Acidity			%
					Cmol (+)/kg				

0 - 0.1	4B 5.2H 4.5B 5.4H	3B 5B	4.68H	0.45	0.15	0.02	0.26J	5.3D
0 - 0.1	4B 5.2H 4.5B 5.4H	3B 5B	4.68H	0.45	0.15	0.02	0.26J	5.3D
0 - 0.1	4B 5.2H 4.5B 5.4H	3B 5B	4.68H	0.45	0.15	0.02	0.26J	5.3D
0 - 0.11	4.37B							
0 - 0.1	4B 5.2H 4.5B 5.4H	3B 5B	4.68H	0.45	0.15	0.02	0.26J	5.3D
0.1 - 0.7	4.7B 5.4H	1B	0.05H	0.02	<0.02	<0.02	0.03J	0.09D
0.1 - 0.7	4.7B 5.4H	1B	0.05H	0.02	<0.02	<0.02	0.03J	0.09D
0.16 - 0.26	4.26B							
0.41 - 0.51	4.47B							
0.7 - 1	4.8B 5.7H	1B	0.13H	0.05	<0.02	<0.02	0.05J	0.2D
0.7 - 1	4.8B 5.7H	1B	0.13H	0.05	<0.02	<0.02	0.05J	0.2D
1 - 1.2	5.6B 6.6H	1B	0.35A	0.2	0.12	0.02		0.69D
1 - 1.2	5.6B 6.6H	1B	0.35A	0.2	0.12	0.02		0.69D

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.1		1.65D		30B	0.051E			0.8
1		2.14D		74B	0.092E			
0 - 0.1		1.65D		30B	0.051E			0.8
1		2.14D		74B	0.092E			
0 - 0.1		1.65D		30B	0.051E			0.8
1		2.14D		74B	0.092E			
0 - 0.11		1.65D		30B	0.051E			0.8
0 - 0.1		2.14D		74B	0.092E			
1		0.03D		13B	0.003E			0.3
0.1 - 0.7		0.03D		13B	0.003E			0.3
0.3								
0.1 - 0.7								
0.3								
0.16 - 0.26								
0.41 - 0.51								
0.7 - 1		0.03D		52B	0.006E			0.1
1.5								
0.7 - 1		0.03D		52B	0.006E			0.1
1.5								

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1 - 1.2	0.06D	20B	0.008E	0.6
2.9				
1 - 1.2	0.06D	20B	0.008E	0.6
2.9				

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC	Exchangeable bases (CEC) - 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
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
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)