

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 2003 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	John-Paul Van Moort	Locality:	
Date Desc.:	15/03/94	Elevation:	260 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6295250 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	473400 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:	Mid-slope	Relief:	10 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	%	Aspect:	No Data

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 No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.1 m	Dark brown (10YR3/3-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; Loose
		consistence; 20-50%, fine gravelly, 2-6mm, subangular, , coarse fragments; Water repellent; Field pH 5.5 (Raupach); Clear change to -
A	0.1 - 0.55 m	Brownish yellow (10YR6/6-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Loose
		consistence; 20-50%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Abrupt change to -
B	0.55 - 1.25 m	Strong brown (7.5YR4/6-Moist); Mottles, 7.5YR70, 2-10% ; , 2.5YR58, 10-20% ; Heavy clay; Strong
		grade of structure, Polyhedral; Smooth-ped fabric; Moist; Field pH 6 (Raupach); Diffuse change to -
B	1.25 - 1.6 m	Weak red (10R4/4-Moist); Mottles, 7.5YR36, 20-50% ; , 7.5YR70, 2-10% ; Heavy clay; Strong grade of
		structure, Polyhedral; Smooth-ped fabric; Moist; Field pH 5.5 (Raupach); Diffuse change to -
B	1.6 - 2 m	Weak red (10R4/4-Moist); Mottles, 5Y61, 20-50% ; , 7.5YR56, 2-10% ; Heavy clay; Strong grade of
		structure, Polyhedral; Smooth-ped fabric; Moist; Field pH 5.5 (Raupach); Diffuse change to -
C	2 - m	;

Morphological Notes

A	Becomes apedal, massive with depth
C	Weathered granite

Observation Notes

Site Notes

Loose sandy surface over a hard layer. Granite outcrop (possible adjacent to a dolerite dyke) 25m upslope of pit.

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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	4.7B 5.3H	7B	2.43H	0.37	0.08	0.11	3.39J		2.99D	
0.2 - 0.5	4.9B 5.7H	1B	0.74H	0.21	0.02	0.03	0.03J		1D	
0.6 - 1.2	5.5B 6.3H	4B	2.45H	8.59	0.06	0.82	<0.02J		11.92D	
1.3 - 1.55	4.5B 5.6H	6B	1.2H	6.84	0.05	1.04	0.22J		9.13D	
1.6 - 2	4B 5.1H	7B	0.74H	6.95	0.05	1.46	1J		9.2D	

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		1.8D		220B	0.136E			5.5
5.5								
0.2 - 0.5		0.15D		57B	0.015E			4.4
6.1								
0.6 - 1.2		0.13D		34B	0.017E			7.4
72.8								
1.3 - 1.55		0.12D		20B	0.013E			5.7
63.3								
1.6 - 2		0.2D		19B	0.014E			7.6
64.7								

Laboratory Analyses Completed for this profile

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