

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0742 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Jaki Hogstrom	Locality:
Date Desc.: 21/04/93	Elevation: 270 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6300920 AMG zone: 50	Runoff: No Data
Easting/Lat.: 474990 Datum: AGD84	Drainage: Moderately well drained

Geology

ExposureType: Auger boring	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%	Pattern Type: Rises
Morph. Type: Upper-slope	Relief: 20 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 6 %	Aspect: 315 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dr3.21
	Great Soil Group: N/A

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

Vegetation:

Surface Coarse No surface coarse fragments; 2-10%, , angular, Gabbro

Profile

A1	0 - 0.05 m	Dusky red (2.5YR3/2-Moist); , 0-0% ; Silty loam; Weak grade of structure; Dry; Weak consistence; Field
		pH 5.5 (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Smooth change to -
A21	0.05 - 0.15 m	Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Fine sandy clay loam; Massive grade of structure; Dry;
		Firm consistence; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Abrupt, Wavy change to -
A22	0.15 - 0.2 m	Reddish brown (2.5YR4/3-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Dry; Firm
		consistence; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Wavy change to -
B21	0.2 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); Mottles, 10YR52, 2-10% , 0-5mm, Distinct;
		Medium heavy clay; Strong grade of structure; Smooth-ped fabric; Dry; Strong consistence; Field pH 6 (Raupach); Clear
		change to -
B22	0.3 - 0.55 m	Dark reddish brown (2.5YR3/4-Moist); Mottles, 5YR31, 10-20% , 15-30mm, Distinct; ,
		10YR52, 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very
		firm consistence; Field pH 5.5 (Raupach); Clear change to -
C	0.55 - 0.8 m	Reddish brown (2.5YR4/4-Moist); Mottles, 10YR48, 10-20% , 5-15mm, Distinct; Medium clay; Weak
		grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 5.5 (Raupach);

Morphological Notes

C Weathered rock in layer

Observation Notes

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Observation 1

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									
	4.6B									
0 - 0.1	4.6B									
	4.6B									
0.05 - 0.15	4.6B	2B								
	6.1H									
	4.6B									
0.05 - 0.15	4.6B	2B								
	6.1H									
	4.6B									
0.05 - 0.15	4.6B	2B								
	6.1H									
	4.6B									
0.2 - 0.3	4.7B	4B	9.34H	9.31	0.1	1.53	0.1J		20.28D	
	6.2H									
0.2 - 0.3	4.7B	4B	9.34H	9.31	0.1	1.53	0.1J		20.28D	
	6.2H									
0.4 - 0.5	4.4B									

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								
0 - 0.1								
0.05 - 0.15								
0.05 - 0.15								
0.05 - 0.15								
0.2 - 0.3								49I 7
44								
0.2 - 0.3								49I 7
44								
0.4 - 0.5								

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_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
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_Nr_C	Clay (%) - Not recorded
P10_Nr_S	Sand (%) - Not recorded
P10_Nr_Z	Silt (%) - Not recorded