Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0483** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	21/09/92	**Elevation:**	288 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6241140 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	574370 Datum: AGD84	**Drainage:**	No Data

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 low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Mid-slope	**Relief:**	40 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	135 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Eutrophic Mottled-Subnatric Red Sodosol
ASC Confidence: Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dr3.21
Great Soil Group: N/A

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 Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Wet; Very weak consistence; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt, Smooth change to -

A2 0.1 - 0.2 m Brown (7.5YR5/3-Moist); , 0-0% ; Clayey sand; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Very weak consistence; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Abrupt, Wavy change to -

B2t 0.2 - 0.35 m Reddish brown (5YR4/4-Moist); Mottles, 5YR46, 10-20% , 5-15mm, Distinct; Medium clay; Strong grade of structure; Rough-ped fabric; Firm consistence; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 5 (Raupach); Common, fine (1-2mm) roots;

C 0.35 - 0.55 m Brown (7.5YR5/4-Moist); Substrate influence, 7.5YR43, 10-20% , 5-15mm, Distinct; Clayey sand; Massive grade of structure; Dry; Very weak consistence; 50-90%, fine gravelly, 2-6mm, subangular, Gabbro, coarse fragments; Field pH 6 (Raupach);

Morphological Notes

C Weathered gabbro

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			

m	dS/m					Cmol (+)/kg						%
0 - 0.11	4.82B											
0.11 - 0.21	4.64B											
0.2 - 0.35	4.6B 5.9H	10B	2.25H	6.12	0.13	1.55	0.24J			10.05D		
0.2 - 0.35	4.6B 5.9H	10B	2.25H	6.12	0.13	1.55	0.24J			10.05D		
0.41 - 0.51	4.1B											

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.11												
0.11 - 0.21												
0.2 - 0.35												
0.2 - 0.35												
0.41 - 0.51												

Laboratory Analyses Completed for this profile

15_NR_CMR	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
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_gt2m	> 2mm particle size analysis, (method not recorded)