

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0395 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	12/08/92	Elevation:	300 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6245290 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	545860 Datum: AGD84	Drainage:	Poorly 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 low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type:	Mid-slope	Relief:	35 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:		Mapping Unit:	N/A
N/A		Principal Profile Form:	Dy3.22
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; 2-10%, , subangular, Dolerite

Profile

A1	0 - 0.15 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy loam; Weak grade of structure, 20-50 mm, Subangular
		coarse
		blocky; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Dolerite, fragments; 0-2%, fine gravelly, 2-6mm, rounded, , coarse fragments; 10-20%, medium gravelly, 6-20mm,
		rounded, , coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Clear change to -
A2	0.15 - 0.25 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Wet; Loose
		consistence; 50-90%, fine gravelly, 2-6mm, rounded, , coarse fragments; 2-10%, medium gravelly, 6-
		20mm, rounded, , coarse fragments; Very many (50 - 100 %), Ferromanganiferous, Medium (2 -6 mm),
		Nodules; Field pH 7 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -
B2t	0.25 - 0.5 m	Yellowish brown (10YR5/4-Moist); Mottles, 7.5YR48, 10-20% , 5-15mm, Faint; Medium clay; Moderate
		grade of structure; Rough-ped fabric; Wet; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6
		mm), Nodules; Field pH 7.5 (Raupach); Common, fine (1-2mm) roots; Abrupt change to -
B3	0.5 - 0.55 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Medium clay; Wet; 20-50%, medium gravelly, 6-20mm,
		subangular, Dolerite, coarse fragments; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm),
		Nodules; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Abrupt change to -

Morphological Notes

A1	Earthworms present.
B2t	Sampled ESP
B3	Stopped by either a rock floater or unweathered rock

Observation Notes

Site Notes

Flat Rocks Road

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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 - 0.11	4.77B									
0.16 - 0.26	4.99B									
0.25 - 0.5	5.8B	11B	4.71A	8.74	0.08	3.03			16.56D	
	7H									
0.25 - 0.5	5.8B	11B	4.71A	8.74	0.08	3.03			16.56D	
	7H									
0.41 - 0.51	5.76B									

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³			%	
0 - 0.11											
0.16 - 0.26											
0.25 - 0.5											
0.25 - 0.5											
0.41 - 0.51											

Laboratory Analyses Completed for this profile

15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, 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
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)