

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0477 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 18/09/92	Elevation: 334 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6240860 AMG zone: 50	Runoff: No Data
Easting/Lat.: 568130 Datum: AGD84	Drainage: 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 low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type: Upper-slope	Relief: 40 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: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dy5.43
	Great Soil Group: N/A

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

Profile

<p>A1 0 - 0.1 m structure; Moist;</p> <p>Common (10 - 20 (1-2mm) roots;</p>	<p>Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy fine sand; Single grain grade of Loose consistence; 10-20%, medium gravelly, 6-20mm, rounded, , coarse fragments; (1-2mm) roots; %), Ferruginous, Coarse (6 - 20 mm), Concretions; Field pH 5.5 (Raupach); Many, fine Abrupt, Smooth change to -</p>
<p>A2e 0.1 - 0.3 m structure; Moderately fragments; 10-20%, Ferruginous, Coarse</p>	<p>Yellowish brown (10YR5/4-Moist); , 0-0% ; Fine sandy loam; Single grain grade of moist; Loose consistence; 50-90%, medium gravelly, 6-20mm, rounded, , coarse coarse gravelly, 20-60mm, rounded, , coarse fragments; Very many (50 - 100 %), (6 - 20 mm), Concretions; Field pH 6 (Raupach); Common, fine (1-2mm) roots;</p>
<p>B2t 0.3 - 0.6 m sandy light clay; 20%, medium Coarse (6 - 20 mm), -</p>	<p>Strong brown (7.5YR5/6-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Distinct; Fine Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; 10- gravelly, 6-20mm, rounded, , coarse fragments; Common (10 - 20 %), Ferruginous, Concretions; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Diffuse change to -</p>
<p>B3 0.6 - 0.8 m 10YR66, 10- Moderately Common (10 - 20 roots;</p>	<p>Strong brown (7.5YR5/8-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Mottles, 20% , 5-15mm, Distinct; Light medium clay; Strong grade of structure; Smooth-ped fabric; moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; (1-2mm) roots; %), Ferruginous, Fine (0 - 2 mm), Nodules; Field pH 6 (Raupach); Few, very fine (0-1mm) Gradual change to -</p>
<p>C 0.8 - 1 m</p>	<p>White (10YR8/1-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Prominent; Mottles,</p>

7.5YR58, 10-20% ,

moist; Weak

5-15mm, Distinct; Light clay; Moderate grade of structure; Smooth-ped fabric; Moderately
consistence; Field pH 6 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

B3 Kaolinite
C Kaolinised weathered granite

Observation Notes

Site Notes

Eureka 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	4.53B									
0.16 - 0.26	4.33B									
0.3 - 0.6	4.9B	28B	0.39H	2.87	0.02	0.68	0.16J		3.96D	
	5.2H									
0.3 - 0.6	4.9B	28B	0.39H	2.87	0.02	0.68	0.16J		3.96D	
	5.2H									
0.41 - 0.51	4.46B									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.11											
0.16 - 0.26											
0.3 - 0.6											
0.3 - 0.6											
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)