

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0484 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 21/09/92	<b>Elevation:</b> 287 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6238670 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 576860 Datum: AGD84	<b>Drainage:</b> Moderately well drained

#### Geology

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

#### Land Form

**Rel/Slope Class:** Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

<b>Morph. Type:</b> Crest	<b>Relief:</b> 25 metres
<b>Elem. Type:</b> Summit surface	<b>Slope Category:</b> No Data
<b>Slope:</b> 1 %	<b>Aspect:</b> 270 degrees

#### Surface Soil Condition Firm

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Ferric Mottled-Subnatric Yellow Sodosol	<b>Principal Profile Form:</b> Dg4.41
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> N/A
Confidence level not specified	

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

#### Vegetation:

**Surface Coarse** 20-50%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

#### Profile

A1 Loose  (10 - 20 %), (1-2mm) roots;	0 - 0.1 m  Dark grey (10YR4/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moist; consistence; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; Common Ferruginous, Coarse (6 - 20 mm), Concretions; Field pH 5.5 (Raupach); Abundant, fine Abrupt, Smooth change to -
A2ec consistence; 20-  20-60mm,  Very many (50 - fine (1-2mm)	0.1 - 0.5 m  Pale brown (10YR6/3-Moist); , 0-0% ; Single grain grade of structure; Moist; Loose 50%, medium gravelly, 6-20mm, rounded, , coarse fragments; 10-20%, coarse gravelly, rounded, , coarse fragments; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 100 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Field pH 6 (Raupach); Common, roots; Abrupt change to -
B21t Moderate grade  gravelly, 6-20mm,  Concretions; Field	0.5 - 0.7 m  Pale yellow (2.5Y7/4-Moist); Mottles, 10R46, 20-50% , 5-15mm, Distinct; Medium clay; of structure; Rough-ped fabric; Moderately moist; Firm consistence; 20-50%, medium rounded, , coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), pH 5.5 (Raupach); Few, fine (1-2mm) roots; Gradual change to -
B22t 10R46, 2-10% , 5-  Moderately moist; Firm	0.7 - 1 m  Light grey (10YR7/1-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Distinct; Mottles, 15mm, Distinct; Medium clay; Moderate grade of structure; Smooth-ped fabric; consistence; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots;

#### Morphological Notes

A2ec	Medium sand
B22t	Kaolinitic

#### 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 - 0.11	4.86B									
0.16 - 0.26	4.94B									
0.41 - 0.51	5.2B									
0.5 - 0.7	5B	14B	0.66H	4.71	0.34	1.54	0.04J		7.25D	
	6H									
0.5 - 0.7	5B	14B	0.66H	4.71	0.34	1.54	0.04J		7.25D	
	6H									

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 - 0.11								
0.16 - 0.26								
0.41 - 0.51								
0.5 - 0.7								
0.5 - 0.7								

**Laboratory Analyses Completed for this profile**

15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , K <sup>+</sup> ) 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 (Mn <sup>2+</sup> ) 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)