

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0924 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 22/06/93	<b>Elevation:</b> 353 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6289770 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 586750 Datum: AGD84	<b>Drainage:</b> Imperfectly 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:** Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

<b>Morph. Type:</b> Mid-slope	<b>Relief:</b> 30 metres
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 4 %	<b>Aspect:</b> 270 degrees

**Surface Soil Condition** Firm

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

**Soil Classification**

<b>Australian Soil Classification:</b> N/A	<b>Mapping Unit:</b> N/A
<b>ASC Confidence:</b> Confidence level not specified	<b>Principal Profile Form:</b> Dy5.41
	<b>Great Soil Group:</b> N/A

**Site** Extensive clearing, for example poisoning, ringbarking

**Vegetation:**

**Surface Coarse** 20-50%, medium gravelly, 6-20mm, angular, Quartz; 2-10%, , angular, Quartz

**Profile**

<b>A1</b> 0 - 0.06 m	Dark grey (10YR4/1-Moist); , 0-0% ; Loamy coarse sand; Single grain grade of structure; Moist; Loose
5.5 (Raupach);	consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH
	Many, very fine (0-1mm) roots; Abrupt change to -
<b>A2e</b> 0.06 - 0.2 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure;
fragments; 10-20%,	Moist; Loose consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse
Common, very fine	medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 6 (Raupach);
	(0-1mm) roots; Clear change to -
<b>B21t</b> 0.2 - 0.3 m	Light brown (7.5YR6/4-Moist); Mottles, 2.5YR48, 20-50% , 5-15mm, Prominent; Light
medium clay;	Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; 10-
20%, fine	gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6 (Raupach); Common,
very fine (0-1mm)	roots; Clear change to -
<b>B22</b> 0.3 - 0.45 m	Brownish yellow (10YR6/6-Moist); Mottles, 2.5YR48, 20-50% , 5-15mm, Distinct; Clay
loam; Moderate	grade of structure; Rough-ped fabric; Moist; Firm consistence; Field pH 6 (Raupach);
Few, very fine (0-	1mm) roots; Clear change to -
<b>B3</b> 0.45 - 0.65 m	White (10YR8/1-Moist); , 2.5YR48, 20-50% , 0-5mm, Prominent; Sandy clay loam;
Massive grade of	structure; Moist; Firm consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;
Gradual change	to -
<b>C</b> 0.65 - 0.78 m	Light grey (10YR7/1-Moist); Mottles, 10R36, 20-50% , 15-30mm, Prominent; Coarse
sandy clay loam;	Weak grade of structure; Rough-ped fabric; Moist; Firm consistence; Field pH 5.5
(Raupach); Few, very	fine (0-1mm) roots; Abrupt change to -

R 0.78 - m Rock

### Morphological Notes

B22 pH. 5.5-6.  
B3 pH 5.5-6.  
R Unidentified rock - possibly quartz.

### Observation Notes

### Site Notes

Site in a small area of remnant vegetation along the Warren Road; quartz outcrop 15m southwest of site.

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### 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	4.2B									
0.1 - 0.2	4.5B									
0.2 - 0.3	4.7B	9B	0.89H	2.24	0.14	0.35	0.19J		3.62D	
	5.6H									
0.2 - 0.3	4.7B	9B	0.89H	2.24	0.14	0.35	0.19J		3.62D	
	5.6H									
0.35 - 0.45	4.5B									

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								
0.1 - 0.2								
0.2 - 0.3								51.5I 11.5
37								
0.2 - 0.3								51.5I 11.5
37								
0.35 - 0.45								

### Laboratory Analyses Completed for this profile

15\_NR\_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available  
15\_NR\_CMRR 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