

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0854 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	02/06/93	<b>Elevation:</b>	370 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6243740 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	531610 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>	5 %	<b>Aspect:</b>	0 degrees

#### Surface Soil Condition Loose

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Mottled Mesotrophic Yellow Chromosol	<b>Principal Profile Form:</b>	Dg4.41
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A

No analytical data are available but confidence is fair.

**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 - 0.12 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moist; Loose
		consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 5.5 (Raupach);
		Many, very fine (0-1mm) roots; Abrupt change to -
A21ec	0.12 - 0.35 m	Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; Loose
		consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, medium
		gravelly, 6-20mm, subangular, , coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm),
		Nodules; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Clear change to -
A22	0.35 - 0.5 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; Loose
		consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6
		(Raupach); Common, very fine (0-1mm) roots; Clear change to -
B2t	0.5 - 0.65 m	Pale yellow (2.5Y7/4-Moist); Mottles, 7.5YR58, 20-50% , 15-30mm, Distinct; , 2.5YR48, 10-20% , 5-
		15mm, Distinct; Sandy 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); Few, very fine (0-1mm) roots; Clear change to -
C	0.65 - 0.8 m	Strong brown (7.5YR5/8-Moist); Substrate influence, 10R46, 20-50% , 15-30mm, Distinct; , 10YR81, 20-
		50% , 15-30mm, Distinct; Clay loam; Massive grade of structure; Moderately moist; Weak consistence;
		20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 5 (Raupach); Few, very fine
		(0-1mm) roots;

#### Morphological Notes

A21ec Clay content (5%)

A22 Clay content higher than L2 (10%)  
 B2t organic matter leached throughout profile into this layer weathered granite

### Observation Notes

### Site Notes

"Marri sandy duplex"

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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	4.9B									
0.15 - 0.25	5.3B									
0.35 - 0.45	5.1B									
0.5 - 0.65	4.7B	3B	0.94H	3.36	0.05	0.16	0.26J		4.51D	
0.5 - 0.65	5.6H									
0.5 - 0.65	4.7B	3B	0.94H	3.36	0.05	0.16	0.26J		4.51D	
	5.6H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1								
0.15 - 0.25								
0.35 - 0.45								
0.5 - 0.65								51.5I 9
39.5								
0.5 - 0.65								51.5I 9
39.5								

### 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