

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0778 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Jaki Hogstrom	<b>Locality:</b>	
<b>Date Desc.:</b>	10/05/93	<b>Elevation:</b>	316 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6305480 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	467430 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

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	18 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	3 %	<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
N/A		<b>Principal Profile Form:</b>	Dy4.52
<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** 10-20%, medium gravelly, 6-20mm, subrounded, ; 10-20%, , ,

#### Profile

Ap	0 - 0.08 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; Loose
		consistence; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6
		(Raupach); Many, very fine (0-1mm) roots; Abrupt, Wavy change to -
B11	0.08 - 0.25 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Moderately
		moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6
		(Raupach); Many, very fine (0-1mm) roots; Clear change to -
B12	0.25 - 0.4 m	Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Moderately
		moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6
		(Raupach); Common, very fine (0-1mm) roots; Clear change to -
B21	0.4 - 0.6 m	Yellowish brown (10YR5/6-Moist); , 0-0% ; Light clay; Weak grade of structure; Rough-ped fabric;
		Moderately moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, , coarse fragments;
		Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Clear change to -
B22	0.6 - 0.7 m	Yellowish brown (10YR5/8-Moist); , 0-0% ; Light clay; Massive grade of structure; Firm consistence; 20-
		50%, fine gravelly, 2-6mm, subangular, , coarse fragments; Field pH 7 (Raupach); Few, fine (1-2mm)
		roots;

#### Morphological Notes

B21	Very slight dispersion
B22	Very slight dispersion. Slightly kaolinitic

#### Observation Notes

#### Site Notes

"hummocky" - bumps from straw and topsoil erosion and deposition

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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	5.1B									
0.15 - 0.25	4.9B									
0.4 - 0.6	5.5B	2B	1.53H	2.17	0.09	0.07	0.03J		3.86D	
	6.3H									
0.4 - 0.6	5.5B	2B	1.53H	2.17	0.09	0.07	0.03J		3.86D	
	6.3H									
0.4 - 0.5	5.3B									

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 - 0.1											
0.15 - 0.25											
0.4 - 0.6									73I		4.5
	22.5										
0.4 - 0.6									73I		4.5
	22.5										
0.4 - 0.5											

**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