

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0116 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 18/11/91	<b>Elevation:</b> 360 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6267180 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 547910 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:** Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

<b>Morph. Type:</b> Crest	<b>Relief:</b> 50 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 Hardsetting, Hardsetting

**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> Dy3.21
	<b>Great Soil Group:</b> N/A

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

#### Vegetation:

**Surface Coarse** No surface coarse fragments; 0-2%, , angular, Granite

#### Profile

A1	0 - 0.15 m	Dark grey (10YR4/1-Moist); , 0-0% ; Loamy coarse sand; Single grain grade of structure; Moderately moist; 10-20%, Quartz, coarse fragments; Field pH 5.5 (Raupach); Abundant, very fine (0-1mm) roots;
		Abrupt change to -
A2	0.15 - 0.26 m	Brown (10YR5/3-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Dry; 20-50%, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Clear change to -
B21	0.26 - 0.31 m	Brown (10YR5/3-Moist); , 0-0% ; Light medium clay; Weak grade of structure; Rough-ped fabric; Dry; 20-50%, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;
B22	0.31 - 0.45 m	Olive yellow (2.5Y6/6-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Distinct; Light clay; Weak grade of structure; Rough-ped fabric; Dry; 2-10%, Quartz, coarse fragments; Field pH 5 (Raupach);
B3	0.45 - 0.5 m	Pale yellow (2.5Y7/4-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Prominent; Light clay; Massive grade of structure; Dry; 2-10%, Quartz, coarse fragments; Field pH 5.5 (Raupach); Gradual change to -
C	0.5 - 0.6 m	Light red (10R6/6-Moist); , 0-0% ; Light clay; Massive grade of structure; Dry; 2-10%, Quartz, coarse fragments; Field pH 5.5 (Raupach);

#### Morphological Notes

A1	F S QZ
A2	F S QZ
B21	F S QZ +KS
B22	F S QZ +KS
B3	F S QZ

C

F S QZ

**Observation Notes****Site Notes****Project Name:** Katanning land resources survey**Project Code:** KLC**Site ID:** 0116**Observation** 1**Agency Name:** Agriculture Western Australia**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.26 - 0.45	4.4B	4B	1.21H	1.64	0.07	0.1	0.7J		3.02D	
	5.4H									
0.26 - 0.45	4.4B	4B	1.21H	1.64	0.07	0.1	0.7J		3.02D	
	5.4H									

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>			%	
0.26 - 0.45									46.5I		5
48.5											
0.26 - 0.45									46.5I		5
48.5											

**Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	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)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded