

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 1109 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 03/08/93	<b>Elevation:</b> 312 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6319810 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 548210 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> Upper-slope	<b>Relief:</b> 30 metres
<b>Elem. Type:</b> Summit surface	<b>Slope Category:</b> No Data
<b>Slope:</b> 1 %	<b>Aspect:</b> 90 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> Dr4.11
	<b>Great Soil Group:</b> N/A

**Site** Cultivation. Rainfed

#### Vegetation:

**Surface Coarse** No surface coarse fragments; No surface coarse fragments

#### Profile

A1	0 - 0.1 m	Brown (7.5YR4/2-Moist); , 0-0% ; Sandy clay loam; Single grain grade of structure; Moist; 10-20%, fine
		gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -
B21	0.1 - 0.35 m	Red (2.5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Strong consistence; Field pH 8.5 (Raupach); Common, very fine (0-1mm) roots; Clear change to -
B22	0.35 - 0.5 m	Red (2.5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, , coarse fragments; Common (10 - 20 %), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Gradual change to -
B3	0.5 - 0.9 m	Yellowish red (5YR4/6-Moist); Mottles, 7.5YR68, 20-50% , 15-30mm, Distinct; , 10YR62, 20-50% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure; Smooth-ped fabric; Moderately moist; Very firm consistence; Many (20 - 50 %), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;

#### Morphological Notes

B21	Sticky clay.
B22	Sticky clay
B3	Kaolinitic very slight dispersion.

#### Observation Notes

#### Site Notes

Site on Painter Road Reserve - rill and sheet erosion has occurred on roaded catchment/drain into dam (in clay) slope of drain about 2%.

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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	6B									
0.1 - 0.35	6.9B 8H	34B	1.4E	4.42	0.87	3.16		12B	9.85D	26.33
0.1 - 0.35	6.9B 8H	34B	1.4E	4.42	0.87	3.16		12B	9.85D	26.33
0.1 - 0.35	6.9B 8H	34B	1.4E	4.42	0.87	3.16		12B	9.85D	26.33
0.15 - 0.25	6.9B									
0.4 - 0.5	4.6B									

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 - 0.35	<2C							32.5I 8
59.5								
0.1 - 0.35	<2C							32.5I 8
59.5								
0.1 - 0.35	<2C							32.5I 8
59.5								
0.15 - 0.25								
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_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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