

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0410 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 19/08/92	<b>Elevation:</b> 280 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6273320 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 585010 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:** Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

<b>Morph. Type:</b> Crest	<b>Relief:</b> 10 metres
<b>Elem. Type:</b> Summit surface	<b>Slope Category:</b> No Data
<b>Slope:</b> 5 %	<b>Aspect:</b> 0 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> Dy2.13
	<b>Great Soil Group:</b> N/A

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

**Vegetation:**

**Surface Coarse** 0-2%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

**Profile**

<p>A1 0 - 0.1 m 50 mm, consistence; 20-50%, fine (1-2mm)</p>	<p>Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey sand; Weak grade of structure, 20-Subangular blocky; Sandy (grains prominent) fabric; Moderately moist; Very weak medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6 (Raupach); Abundant, roots; Abrupt, Smooth change to -</p>
<p>B21t 0.1 - 0.15 m medium clay; pH 7</p>	<p>Light yellowish brown (10YR6/4-Moist); Mottles, 7.5YR54, 2-10% , 0-5mm, Faint; Sandy Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field (Raupach); Many, fine (1-2mm) roots; Clear change to -</p>
<p>B22t 0.15 - 0.3 m clay; Moderate calcareous; Field</p>	<p>Light brownish grey (2.5Y6/3-Moist); Mottles, 10YR65, 2-10% , 5-15mm, Faint; Medium grade of structure; Rough-ped fabric; Dry; Very firm consistence; Soil matrix is Slightly pH 9 (Raupach); Common, fine (1-2mm) roots; Abrupt change to -</p>
<p>B23tk 0.3 - 0.5 m clay; Moderate %), coarse (20 - 60 2mm) roots;</p>	<p>Light brownish grey (2.5Y6/3-Moist); Mottles, 10YR65, 2-grade of structure; Rough-ped fabric; Moderately moist; Weak consistence; Many (20 - 50 Calcareous, Coarse (6 - 20 mm), Concretions; Very few (0 - 2 %), Calcareous, Very mm), Concretions; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Few, fine (1-Clear change to -</p>
<p>B3k 0.5 - 0.7 m 2.5YR36, 10-20% , 5- Firm (0 - 2 %), Field pH 9.5</p>	<p>Light grey (2.5Y7/2-Moist); Mottles, 10YR65, 20-50% , 5-15mm, Distinct; Mottles, 15mm, Prominent; Sandy medium clay; Weak grade of structure; Rough-ped fabric; Dry; consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Concretions; Very few Calcareous, Very coarse (20 - 60 mm), Concretions; Soil matrix is Slightly calcareous; (Raupach); Few, fine (1-2mm) roots; Clear change to -</p>

C 0.7 - 1 m Light grey (2.5Y7/2-Moist); Mottles, 2.5YR36, 20-50% , 15-30mm, Prominent; Mottles, 10YR81, 20-50% , 5-15mm, Distinct; Light clay; Weak grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

#### Morphological Notes

B23tk <35% KC  
B3k <35% KC  
C Slightly kaolinitic

#### Observation Notes

#### Site Notes

Shaw Road

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#### Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.11	5.73B									
0.1 - 0.3	7.6B 8.7H	12B	3.13E	6.06	0.82	1.3		12B	11.31D	10.83
0.1 - 0.3	7.6B 8.7H	12B	3.13E	6.06	0.82	1.3		12B	11.31D	10.83
0.1 - 0.3	7.6B 8.7H	12B	3.13E	6.06	0.82	1.3		12B	11.31D	10.83
0.16 - 0.26	7.38B									
0.41 - 0.51	7.79B									

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Size CS	Analysis FS	Silt
0 - 0.11											
0.1 - 0.3	<2C										
0.1 - 0.3	<2C										
0.1 - 0.3	<2C										
0.16 - 0.26											
0.41 - 0.51											

#### Laboratory Analyses Completed for this profile

15\_NR\_CMV Exchangeable bases (Ca/Mg ratio) - Not recorded  
15C1\_CA Exchangeable bases (Ca<sup>2+</sup>,Mg<sup>2+</sup>,Na<sup>+</sup>,K<sup>+</sup>) - 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 (CaCO <sub>3</sub> ) - 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)