

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0128 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 25/11/91	<b>Elevation:</b> 310 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6271780 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 557100 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> Mid-slope	<b>Relief:</b> 50 metres
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 0 %	<b>Aspect:</b> 90 degrees

#### Surface Soil Condition Loose

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Ferric Hypernatric Brown Sodosol	<b>Principal Profile Form:</b> Dy5.32
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> N/A

Analytical data are incomplete but reasonable confidence.

**Site** Limited clearing, for example selective logging

#### Vegetation:

**Surface Coarse** 20-50%, medium gravelly, 6-20mm, rounded, Ironstone; No surface coarse fragments

#### Profile

A11	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; 2-10%,
		, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm),
		Concretions; Water repellent; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -
A12	0.05 - 0.2 m	Brown (7.5YR4/4-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; 20-50%,
		coarse fragments; Many (20 - 50 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Field
		pH 6 (Raupach); Many, very fine (0-1mm) roots; Clear change to -
A2j	0.2 - 0.35 m	Brown (7.5YR5/4-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; 20-50%, ,
		coarse fragments; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions;
		Field pH 7 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -
B21t	0.35 - 0.55 m	Yellowish brown (10YR5/8-Moist); Mottles, 2.5YR48, 2-10% , 0-5mm, Distinct; Light
		medium clay; Moderate grade of structure; Rough-ped fabric; Dry; 20-50%, , coarse fragments; Many
		(20 - 50 %), Ferromanganiferous, Medium (2
		medium (2- 5mm) roots; Clear change to -
B22	0.55 - 0.58 m	Yellowish brown (10YR5/8-Moist); Mottles, 10YR71, 10-20% , 5-15mm, Distinct; Light
		clay; Moderate grade of structure; Smooth-ped fabric; Dry; 20-50%, , coarse fragments; Many (20 - 50
		%), Ferromanganiferous, Medium (2 -6 mm), Concretions; Field pH 8 (Raupach); Common,
		medium (2- 5mm) roots;

#### Morphological Notes

A11	F R GC
A12	F,M R GC + FINE SAND
A2j	F,M R,U GC + FINE SAND

B21t F,M R GC SAMPLED  
B22 F,M R GC

### Observation Notes

### Site Notes

Slope upslope of site is 4%

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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				%
0.35 - 0.55	6B 6.6H	73B	1.21A	6.24	0.1	3.02			10.57D	
0.35 - 0.55	6B 6.6H	73B	1.21A	6.24	0.1	3.02			10.57D	

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
0.35 - 0.55								53I	3.5
43.5									
0.35 - 0.55								53I	3.5
43.5									

### 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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MN	Exchangeable bases (Mn2+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay
Sum of Cations	
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
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