

**Project Name:** Katanning land resources survey  
**Project Code:** KLC                   **Site ID:** 1577                   **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	10/02/94	<b>Elevation:</b>	355 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6277910 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	549800 Datum: AGD84	<b>Drainage:</b>	Moderately well drained

#### Geology

<b>ExposureType:</b>	Soil pit	<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 low hills 30-90m 3-10%	<b>Pattern Type:</b>	Low hills
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<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	35 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2 %	<b>Aspect:</b>	270 degrees

#### Surface Soil Condition

Loose

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

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Ferric Mottled-Subnartic Yellow Sodosol		<b>Principal Profile Form:</b>	Dy5.41
<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** 2-10%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

#### Profile

A1	0 - 0.15 m weak	Dark grey (10YR4/1-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Dry; Very consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, medium fine (0-1mm)	gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 5.5 (Raupach); Many, very roots; Abrupt, Smooth change to -
A21e	0.15 - 0.45 m Loose	Pale brown (10YR6/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; consistence; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 20-50%, coarse fine (0-1mm)	gravelly, 20-60mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Many, very roots; Clear, Smooth change to -
A22e	0.45 - 0.65 m structure; Dry; fragments; 20-50%, Common, very fine (0-	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey coarse sand; Massive grade of Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); 1mm) roots; Abrupt, Wavy change to -	
B2	0.65 - 0.9 m clay; Moderate pH 5.5	Brownish yellow (10YR6/6-Moist); Mottles, 7.5YR56, 10-20% , 15-30mm, Distinct; Light grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Firm consistence; Field (Raupach); Few, fine (1-2mm) roots; Gradual, Wavy change to -	
B3	0.9 - 1.4 m Light clay; Weak 50%, fine	Brownish yellow (10YR6/8-Moist); Mottles, 2.5YR46, 10-20% , 15-30mm, Prominent; grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; 20- gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 5.5 (Raupach);	

#### Morphological Notes

A21e	KS in WCMS
B2	Kaolinitic clay

B3 Kaolinitic clay

**Observation Notes**

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations		Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
				Mg	K					
0 - 0.1	5B 5.9H 4.9B 5.7H 4.9B	4B 5B	2.8H	0.8	0.07	0.05	0.06J		3.72D	
0 - 0.1	5B 5.9H 4.9B 5.7H 4.9B	4B 5B	2.8H	0.8	0.07	0.05	0.06J		3.72D	
0 - 0.1	5B 5.9H 4.9B 5.7H 4.9B	4B 5B	2.8H	0.8	0.07	0.05	0.06J		3.72D	
0 - 0.1	5B 5.9H 4.9B 5.7H 4.9B	4B 5B	2.8H	0.8	0.07	0.05	0.06J		3.72D	
0 - 0.1	5B 5.9H 4.9B 5.7H 4.9B	4B 5B	2.8H	0.8	0.07	0.05	0.06J		3.72D	
0 - 0.1	5B 5.9H 4.9B 5.7H 4.9B	4B 5B	2.8H	0.8	0.07	0.05	0.06J		3.72D	
0.1 - 0.15	4.6B 5.6H	1B	0.52H	0.26	0.04	0.03	0.27J		0.85D	
0.1 - 0.15	4.6B 5.6H	1B	0.52H	0.26	0.04	0.03	0.27J		0.85D	
0.15 - 0.45	4.5B 5.6H	1B	0.17H	0.21	0.04	0.03	0.3J		0.45D	
0.15 - 0.45	4.5B 5.6H	1B	0.17H	0.21	0.04	0.03	0.3J		0.45D	
0.15 - 0.25	4.5B									
0.3 - 0.4	4.7B									
0.45 - 0.65	5.5B 6.2H	1B	0.13H	0.62	0.08	0.08	0.08J		0.91D	
0.45 - 0.65	5.5B 6.2H	1B	0.13H	0.62	0.08	0.08	0.08J		0.91D	
0.65 - 0.85	5.4B 5.7H	7B	0.08H	3.2	0.04	0.35	<0.02J		3.67D	
0.65 - 0.85	5.4B 5.7H	7B	0.08H	3.2	0.04	0.35	<0.02J		3.67D	
0.85 - 0.9	5.5B 5.6H	10B	0.06H	4.4	0.02	0.52	<0.02J		5D	
0.85 - 0.9	5.5B 5.6H	10B	0.06H	4.4	0.02	0.52	<0.02J		5D	
0.9 - 1.2	5.8B 5.7H	12B	0.1H	4.6	0.02	0.59	<0.02J		5.31D	
0.9 - 1.2	5.8B 5.7H	12B	0.1H	4.6	0.02	0.59	<0.02J		5.31D	

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1.2 - 1.4	5.6B 5.6H	13B	0.03H	4.6	<0.02	0.56	<0.02J		5.2D
1.2 - 1.4	5.6B 5.6H	13B	0.03H	4.6	<0.02	0.56	<0.02J		5.2D

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	GV	Particle CS	Size FS	Analysis Silt %
0 - 0.1 3.1		1.62D		110B	0.097E						3.2
0 - 0.1 3.1		1.83D 1.62D		120B 110B	0.107E 0.097E						3.2
0 - 0.1 3.1		1.83D 1.62D		120B 110B	0.107E 0.097E						3.2
0 - 0.1 3.1		1.83D 1.62D		120B 110B	0.107E 0.097E						3.2
0 - 0.1 3.1		1.83D 1.62D		120B 110B	0.107E 0.097E						3.2
0 - 0.1 3.1		1.83D 1.62D		120B 110B	0.107E 0.097E						3.2
0.1 - 0.15 3.7		0.5D		52B	0.028E						3.1
0.1 - 0.15 3.7		0.5D		52B	0.028E						3.1
0.15 - 0.45 4.5		0.29D		42B	0.017E						3.3
0.15 - 0.45 4.5		0.29D		42B	0.017E						3.3
0.15 - 0.25 0.3 - 0.4											
0.45 - 0.65 7.8		0.14D		43B	0.011E						3.5
0.45 - 0.65 7.8		0.14D		43B	0.011E						3.5
0.65 - 0.85 48.2		0.09D		41B	0.008E						6.1
0.65 - 0.85 48.2		0.09D		41B	0.008E						6.1
0.85 - 0.9 58.1		0.08D		38B	0.006E						7.6
0.85 - 0.9 58.1		0.08D		38B	0.006E						7.6
0.9 - 1.2 54		0.06D		32B	0.005E						3.2
0.9 - 1.2 54		0.06D		32B	0.005E						3.2
1.2 - 1.4 58		0.07D		36B	0.006E						6.4
1.2 - 1.4 58		0.07D		36B	0.006E						6.4

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)