Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0066** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	24/10/91	**Elevation:**	311 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6257250 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	582060 Datum: AGD84	**Drainage:**	Moderately well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Upper-slope	**Relief:**	10 metres
Elem. Type:	Summit surface	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	225 degrees

Surface Soil Condition

Soft

Erosion:

(wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
Bleached-Mottled Magnesic-Natric Grey Kurosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dg2.41
Great Soil Group: N/A

Site

Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse

No surface coarse fragments; No surface coarse fragments

Profile

A 0 - 0.11 m Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Water repellent; Field pH 6 (Raupach); Abundant, very fine (0-1mm) roots; Sharp, Wavy change to -

2A1 0.11 - 0.16 m Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 2-10%, Quartz, coarse fragments; Water repellent; Field pH 5.5 (Raupach); Abundant, very fine (0-1mm) roots; Sharp, Wavy change to -

2A2e 0.16 - 0.4 m Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Clear change to -

2B21 0.4 - 0.83 m White (10YR8/1-Moist); Mottles, 10R46, 20-50% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Dry; Field pH 6 (Raupach); Common, medium (2-5mm) roots; Clear change to -

2B22 0.83 - 1.48 m Light grey (10YR7/1-Moist); , 0-0% ; Light medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Dry; 20-50%, Quartz, coarse fragments; Field pH 6 (Raupach); Few, medium (2-5mm) roots; Clear, Tongued change to -

C 1.48 - 1.8 m White (10YR8/1-Moist); , 0-0% ; Light medium clay; Massive grade of structure; Rough-ped fabric; Dry; 10-20%, Quartz, coarse fragments; Field pH 6 (Raupach);

Morphological Notes

A	DEPOSITED WIND BLOWN SAND
2A1	F A QZ
2B21	+S
2B22	F A QZ
C	F A QZ +S

Observation Notes

Site Notes

Site in remnant veg. On laneway. Hardsetting on near pasture

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Cmol (+)/kg							%
0 - 0.1	4.4B 5.3H	4B								
0 - 0.1	4.4B 5.3H	4B								
0.11 - 0.16	4.8B 6H	4B	1.61H	0.52	0.09	0.09	0.09J		2.31D	
0.11 - 0.16	4.8B 6H	4B	1.61H	0.52	0.09	0.09	0.09J		2.31D	
0.16 - 0.4	4.6B 5.7H	4B	0.32H	0.23	0.03	0.09	0.07J		0.67D	
0.16 - 0.4	4.6B 5.7H	4B	0.32H	0.23	0.03	0.09	0.07J		0.67D	
0.4 - 0.83	5.3B 5.5H	73B	0.36H	4.51	0.07	1.59	0.08J		6.53D	
0.4 - 0.6	5.1B 5.4H	160B	0.47H	4.79	0.08	1	0.05J		6.34D	
0.4 - 0.83	5.3B 5.5H	73B	0.36H	4.51	0.07	1.59	0.08J		6.53D	
0.4 - 0.6	5.1B 5.4H	160B	0.47H	4.79	0.08	1	0.05J		6.34D	
0.6 - 0.83	5.2B 5.4H	140B	0.25H	4.45	0.03	1.36	0.03J		6.09D	
0.6 - 0.83	5.2B 5.4H	140B	0.25H	4.45	0.03	1.36	0.03J		6.09D	
0.83 - 1.48	5.6B 6H	130B	0.11H	6.52	0.02	3.65	0.04J		10.3D	
0.83 - 1.48	5.6B 6H	130B	0.11H	6.52	0.02	3.65	0.04J		10.3D	
1.48 - 1.8	5.5B 5.9H	140B	0.07H	5.22	<0.02	2.72	0.03J		8.02D	
1.48 - 1.8	5.5B 5.9H	140B	0.07H	5.22	<0.02	2.72	0.03J		8.02D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		1.07D		110B	0.064E						
0 - 0.1		1.07D		110B	0.064E						
0.11 - 0.16		1.15D		76B							1.6
4.1											
0.11 - 0.16		1.15D		76B							1.6
4.1											
0.16 - 0.4		0.3D		29B							3.7
3.1											
0.16 - 0.4		0.3D		29B							3.7
3.1											
0.4 - 0.83		0.16D		32B							2.8
62											
0.4 - 0.6									41I		2.5
56.5											
0.4 - 0.83		0.16D		32B							2.8
62											
0.4 - 0.6									41I		2.5
56.5											

0.6 - 0.83			46I	4
50				
0.6 - 0.83			46I	4
50				
0.83 - 1.48	0.06D	31B		11.9
64				
0.83 - 1.48	0.06D	31B		11.9
64				

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1.48 - 1.8	0.05D	40B		26.2
42.6				
1.48 - 1.8	0.05D	40B		26.2
42.6				

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	Exchangeable bases (Ca2+,Mg2+,Na+,K+) 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 (Mn2+) 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_S	Sand (%) - 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)