Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **2317** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	12/04/95	**Elevation:**	280 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6302120 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	512910 Datum: AGD84	**Drainage:**	Imperfectly 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:	Mid-slope	**Relief:**	20 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Mesotrophic Mottled-Subnatric Yellow Sodosol **Principal Profile Form:** Dy3.12
ASC Confidence: **Great Soil Group:** N/A
Confidence level not specified

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1p 0 - 0.08 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Sharp, Smooth change to -

A3e 0.08 - 0.23 m Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -

B2 0.23 - 0.55 m Brownish yellow (10YR6/6-Moist); , 10YR72, 2-10% , 5-15mm, Distinct; , 7.5YR58, 10-20% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Clear, Wavy change to -

C11 0.55 - 1.05 m Brownish yellow (10YR6/6-Moist); Mottles, 7.5YR58, 2-10% , 15-30mm, Distinct; , 2.5YR46, 2-10% , 5-15mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Dry; 20-50%, medium gravelly, 6-20mm, angular, Granite, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -

C12 1.05 - 1.4 m White (10YR8/1-Moist); Mottles, 10YR68, 10-20% , 15-30mm, Distinct; , 2.5YR46, 2-10% , 5-15mm, Distinct; Coarse sandy light clay; Massive grade of structure; Dry; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

C11 Weathered granite

Observation Notes

Site Notes

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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 - 0.08	4.4B 5.3H	7B	2H	0.51	0.09	0.15	0.37J		2.75D	
0 - 0.08	4.4B 5.3H	7B	2H	0.51	0.09	0.15	0.37J		2.75D	
0 - 0.1	4.3B 5.3H	5B								
0 - 0.1	4.3B 5.3H	5B								
0.08 - 0.23	4.1B 5.2H	2B	0.46H	0.29	0.04	0.06	0.41J		0.85D	
0.08 - 0.23	4.1B 5.2H	2B	0.46H	0.29	0.04	0.06	0.41J		0.85D	
0.23 - 0.43	5.5B 6H	5B	1.4H	2.6	0.03	0.26	<0.02J		4.29D	
0.23 - 0.43	5.5B 6H	5B	1.4H	2.6	0.03	0.26	<0.02J		4.29D	
0.43 - 0.55	5.7B 6.2H	6B	1H	3.6	0.02	0.39	<0.02J		5.01D	
0.43 - 0.55	5.7B 6.2H	6B	1H	3.6	0.02	0.39	<0.02J		5.01D	
0.55 - 0.85	5.5B 5.9H	7B	0.4H	2.6	0.02	0.4	<0.02J		3.42D	
0.55 - 0.85	5.5B 5.9H	7B	0.4H	2.6	0.02	0.4	<0.02J		3.42D	
0.85 - 1.05	5.3B 5.8H	8B	0.16H	2.8	0.03	0.49	<0.02J		3.48D	
0.85 - 1.05	5.3B 5.8H	8B	0.16H	2.8	0.03	0.49	<0.02J		3.48D	
1.05 - 1.4	5.4B 6.2H	8B	0.07H	3.7	0.02	0.62	<0.02J		4.41D	
1.05 - 1.4	5.4B 6.2H	8B	0.07H	3.7	0.02	0.62	<0.02J		4.41D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08		1.87D		120B	0.136E						6.1
5.8											
0 - 0.08		1.87D		120B	0.136E						6.1
5.8											
0 - 0.1		1.61D		100B	0.121E						
0 - 0.1		1.61D		100B	0.121E						
0.08 - 0.23		0.28D		33B	0.025E						5.4
11.1											
0.08 - 0.23		0.28D		33B	0.025E						5.4
11.1											
0.23 - 0.43		0.16D		42B	0.026E						6.5
42.9											
0.23 - 0.43		0.16D		42B	0.026E						6.5
42.9											
0.43 - 0.55		0.09D		29B	0.016E						6.1
40.2											
0.43 - 0.55		0.09D		29B	0.016E						6.1
40.2											

0.55 - 0.85	0.05D	18B	0.005E	7.5
25.5				
0.55 - 0.85	0.05D	18B	0.005E	7.5
25.5				
0.85 - 1.05	0.03D	18B	0.005E	6.8
27.6				
0.85 - 1.05	0.03D	18B	0.005E	6.8
27.6				

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1.05 - 1.4	0.05D	15B	0.005E	7.4
26.7				
1.05 - 1.4	0.05D	15B	0.005E	7.4
26.7				

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_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)