

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0720 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	19/02/93	Elevation:	314 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6331370 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	537460 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:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	25 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	0 degrees

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mesotrophic Mottled-Subnatic Yellow Sodosol		Principal Profile Form:	Dg4.41
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.2 m	Dark grey (10YR4/1-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Dry; Very weak
	medium	consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%,
	very fine (0-	gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Many, 1mm) roots; Gradual, Smooth change to -
A21	0.2 - 0.4 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Dry; Very
	Field pH 5.5	weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A22e	0.4 - 0.6 m	Light grey (10YR7/2-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Dry;
	Very weak	consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very
	few (0 - 2 %),	Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.5 (Raupach); Common, very fine
	(0-1mm) roots;	Abrupt, Wavy change to -
B2t	0.6 - 1 m	Very pale brown (10YR7/4-Moist); Mottles, 2.5YR48, 20-50% , 15-30mm, Distinct;
	Mottles, 10YR68, 10-	20% , 15-30mm, Distinct; Light clay; Weak grade of structure, 20-50 mm, Polyhedral;
	Rough-ped fabric;	Dry; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse
	fragments; Field pH 6	(Raupach); Gradual change to -
C11	1 - 1.5 m	Red (2.5YR4/8-Moist); Mottles, 10YR74; Clay loam, coarse sandy; Massive grade of
	structure; Dry;	Firm consistence; Gradual change to -
C12	1.5 - 2 m	Red (2.5YR4/8-Moist); Mottles, 2.5YR48, 20-50% , 15-30mm, Distinct; , 10YR74, 20-50%
	, 15-30mm,	Distinct; Clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric;
	Dry; Very firm	consistence;

Morphological Notes

B2t Kaolinised clay
 C11 Kaolinised clay
 C12 Kaolinised light clay

Observation Notes**Site Notes**

approx. 100m downslope of breakaway, also downslope of granite rock outcrop

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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 - 0.2	4.5B 5.3H	3B	0.6H	0.11	0.03	<0.02	0.03J		0.75D	
0 - 0.1	5B 5.7H 4.8B	11B								
0 - 0.2	4.5B 5.3H	3B	0.6H	0.11	0.03	<0.02	0.03J		0.75D	
0 - 0.1	5B 5.7H 4.8B	11B								
0 - 0.1	5B 5.7H 4.8B	11B								
0.05 - 0.15	4.4B									
0.2 - 0.4	4.3B 5H	2B	0.22H	0.05	<0.02	0.03	0.23J		0.31D	
0.2 - 0.4	4.3B 5H	2B	0.22H	0.05	<0.02	0.03	0.23J		0.31D	
0.4 - 0.6	4.4B 4.8H	4B	0.09H	0.06	<0.02	0.07	0.22J		0.23D	
0.4 - 0.6	4.4B 4.8H	4B	0.09H	0.06	<0.02	0.07	0.22J		0.23D	
0.4 - 0.5	4.3B									
0.6 - 1	5.1B 5.5H	6B	0.21H	1.94	0.02	0.21	0.04J		2.38D	
0.6 - 1	5.1B 5.5H	6B	0.21H	1.94	0.02	0.21	0.04J		2.38D	
1 - 1.4	5.3B 5.7H	8B	0.06H	1.76	<0.02	0.33	<0.02J		2.16D	
1 - 1.4	5.3B 5.7H	8B	0.06H	1.76	<0.02	0.33	<0.02J		2.16D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.2		0.95D		120B	0.045E						3.1
3.3											
0 - 0.1		1.74D		190B	0.1E						
0 - 0.2		0.95D		120B	0.045E						3.1
3.3											
0 - 0.1		1.74D		190B	0.1E						
0 - 0.1		1.74D		190B	0.1E						
0.05 - 0.15											
0.2 - 0.4		0.19D		37B	0.013E						2.7
3											
0.2 - 0.4		0.19D		37B	0.013E						2.7
3											
0.4 - 0.6		0.08D		40B	0.009E						3.4
4.1											

0.4 - 0.6 4.1	0.08D	40B	0.009E	3.4
0.4 - 0.5				
0.6 - 1 41.8	0.06D	36B	0.008E	10.4
0.6 - 1 41.8	0.06D	36B	0.008E	10.4
1 - 1.4 29.5	0.06D	22B	0.008E	11.7
1 - 1.4 29.5	0.06D	22B	0.008E	11.7

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Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMb	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_Nb	Bicarbonate-extractable potassium (not recorded)
3_Nb	Electrical conductivity or soluble salts - Not recorded
4_Nb	pH of soil - Not recorded
4B_AL_Nb	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_Nb	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_Nb_C	Clay (%) - Not recorded
P10_Nb_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_Nb_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)