

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1589 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	16/02/94	Elevation:	301 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6298710 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	581630 Datum: AGD84	Drainage:	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
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Morph. Type:	Upper-slope	Relief:	25 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	2 %	Aspect:	0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	Uc4.11
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 10-20%, medium gravelly, 6-20mm, rounded; ; No surface coarse fragments

Profile

A1p 0 - 0.1 m consistence;	Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Loose 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium subrounded, , coarse fragments; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; change to -
A2 0.1 - 0.2 m consistence; 20-20mm,	Yellowish brown (10YR5/4-Moist); , 0-0% ; Single grain grade of structure; Dry; Loose 50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6- subrounded, , coarse fragments; 20-50%, coarse gravelly, 20-60mm, subrounded, , Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Irregular change to -
B1 0.2 - 0.45 m grade of medium gravelly, mm), Nodules; Common, very	Yellowish brown (10YR5/8-Moist); Mottles, 2.5YR46, 10-20% , 0-5mm, Distinct; Massive structure; Dry; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, 6-20mm, subrounded, , coarse fragments; Many (20 - 50 %), Ferruginous, Medium (2 - 6 Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.5 (Raupach); fine (0-1mm) roots; Clear, Wavy change to -
B 0.45 - 1 m sandy loam; coarse fragments; very fine (0-	Brownish yellow (10YR6/8-Moist); Mottles, 2.5YR46, 20-50% , 5-15mm, Distinct; Coarse Massive grade of structure; Dry; 10-20%, medium gravelly, 6-20mm, subrounded, , Few (2 - 1mm) roots; Clear change to -
C 1 - 1.5 m 10-20% , 5-	White (10YR8/1-Moist); Mottles, 10R36, 20-50% , 15-30mm, Distinct; Mottles, 10YR66, 15mm, Distinct; Clay loam; Weak grade of structure, Polyhedral; Smooth-ped fabric; Dry;

Field pH 6.5

(Raupach);

Morphological Notes

A2 MSL
B1 + CKS - roots in cracks
B Mottled zone

Observation Notes

Site Notes

Datatine Soil Pit 4

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Observation 1

Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations Mg	K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	4.8B 5.6H 4.9B 5.7H 4.8B	9B 10B	2.5H	0.62	0.71	0.11	0.17J		3.94D	
0 - 0.1	4.8B 5.6H 4.9B 5.7H 4.8B	9B 10B	2.5H	0.62	0.71	0.11	0.17J		3.94D	
0 - 0.1	4.8B 5.6H 4.9B 5.7H 4.8B	9B 10B	2.5H	0.62	0.71	0.11	0.17J		3.94D	
0 - 0.1	4.8B 5.6H 4.9B 5.7H 4.8B	9B 10B	2.5H	0.62	0.71	0.11	0.17J		3.94D	
0 - 0.1	4.8B 5.6H 4.9B 5.7H 4.8B	9B 10B	2.5H	0.62	0.71	0.11	0.17J		3.94D	
0 - 0.1	4.8B 5.6H 4.9B 5.7H 4.8B	9B 10B	2.5H	0.62	0.71	0.11	0.17J		3.94D	
0.1 - 0.2	5.4B 6.2H 5.1B	4B	2.2H	0.83	0.26	0.13	<0.02J		3.42D	
0.1 - 0.2	5.4B 6.2H 5.1B	4B	2.2H	0.83	0.26	0.13	<0.02J		3.42D	
0.1 - 0.2	5.4B 6.2H 5.1B	4B	2.2H	0.83	0.26	0.13	<0.02J		3.42D	
0.2 - 0.45	5.8B 6.1H	6B	1.9H	1.8	0.16	0.27	<0.02J		4.13D	
0.2 - 0.45	5.8B 6.1H	6B	1.9H	1.8	0.16	0.27	<0.02J		4.13D	
0.3 - 0.4	5.6B									
0.45 - 0.75	5.6B 5.6H	20B	1.1H	2.7	0.09	0.78	<0.02J		4.67D	
0.45 - 0.75	5.6B 5.6H	20B	1.1H	2.7	0.09	0.78	<0.02J		4.67D	
0.45 - 0.75	5.6B 5.6H	20B	1.1H	2.7	0.09	0.78	<0.02J		4.67D	
0.75 - 1	5.4B 5.4H	21B	0.75H	2.8	0.04	0.66	<0.02J		4.25D	
0.75 - 1	5.4B 5.4H	21B	0.75H	2.8	0.04	0.66	<0.02J		4.25D	
0.75 - 1	5.4B	21B	0.75H	2.8	0.04	0.66	<0.02J		4.25D	

5.4H

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1 - 1.5	5.3B 5.4H	24B	0.5H	3.1	0.03	0.92	<0.02J		4.55D
1 - 1.5	5.3B 5.4H	24B	0.5H	3.1	0.03	0.92	<0.02J		4.55D

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 9.7		1.51D		200B	0.113E						5.2
0 - 0.1 9.7		1.52D 1.51D		220B 200B	0.109E 0.113E						5.2
0 - 0.1 9.7		1.52D 1.51D		220B 200B	0.109E 0.113E						5.2
0 - 0.1 9.7		1.52D 1.51D		220B 200B	0.109E 0.113E						5.2
0 - 0.1 9.7		1.52D 1.51D		220B 200B	0.109E 0.113E						5.2
0 - 0.1 9.7		1.52D 1.51D		220B 200B	0.109E 0.113E						5.2
0.1 - 0.2 8.3		0.43D		48B	0.031E						4.6
0.1 - 0.2 8.3		0.43D		48B	0.031E						4.6
0.1 - 0.2 8.3		0.43D		48B	0.031E						4.6
0.2 - 0.45 10.3		0.24D		31B	0.02E						7
0.2 - 0.45 10.3		0.24D		31B	0.02E						7
0.3 - 0.4 0.45 - 0.75 18		0.1D		23B	0.008E						10.7
0.45 - 0.75 18		0.1D		23B	0.008E						10.7
0.45 - 0.75 18		0.1D		23B	0.008E						10.7
0.75 - 1 25.8		0.05D		17B	0.004E						13.4
0.75 - 1 25.8		0.05D		17B	0.004E						13.4
0.75 - 1 25.8		0.05D		17B	0.004E						13.4
1 - 1.5 36.2		0.05D		25B	0.005E						14.6
1 - 1.5 36.2		0.05D		25B	0.005E						14.6

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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 ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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)