

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1578 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	10/02/94	Elevation:	340 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6280630 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	550880 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:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
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Morph. Type:	Mid-slope	Relief:	30 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	0 degrees

Surface Soil Condition

Loose

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Mottled-Subnartic Grey Sodosol		Principal Profile Form:	Uc2.21
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 20-50%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile

A1p 0 - 0.15 m 20%, fine very fine (0-	Very dark grey (10YR3/1-Moist); ; Loamy sand; Single grain grade of structure; Dry; 10- gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Many, 1mm) roots; Abrupt, Smooth change to -
A21 0.15 - 0.3 m Dry; 10-20%, gravelly, 6-20mm, roots; Abrupt,	Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; 2-10%, medium subrounded, , coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) Smooth change to -
A22e 0.3 - 0.6 m fine gravelly, 2- coarse to -	Light brownish grey (10YR6/2-Moist); , 0-0% ; Massive grade of structure; Dry; 20-50%, 6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Clear, Wavy change to -
A3e 0.6 - 0.75 m coarse sand; coarse fragments;	Light brownish grey (2.5Y6/3-Moist); Mottles, 5YR56, 2-10% , 5-15mm, Distinct; Clayey Massive grade of structure; Dry; 20-50%, medium gravelly, 6-20mm, subrounded, , Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Clear, Wavy change to -
B2 0.75 - 1.4 m Weak grade of	Very pale brown (10YR7/3-Moist); Mottles, 5YR66, 20-50% , 5-15mm, Distinct; Light clay; structure, 10-20 mm, Polyhedral; Dry; Very firm consistence; Field pH 6 (Raupach);

Morphological Notes

A1p	Hard below 10cm
A22e	VWCKS

Observation Notes

Site 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	4.4B 5.1H 4.4B 5H 4.2B	3B 6B	0.93H	0.13	0.05	0.04	0.42J		1.15D		
0 - 0.1	4.4B 5.1H 4.4B 5H 4.2B	3B 6B	0.93H	0.13	0.05	0.04	0.42J		1.15D		
0 - 0.1	4.4B 5.1H 4.4B 5H 4.2B	3B 6B	0.93H	0.13	0.05	0.04	0.42J		1.15D		
0 - 0.1	4.4B 5.1H 4.4B 5H 4.2B	3B 6B	0.93H	0.13	0.05	0.04	0.42J		1.15D		
0 - 0.1	4.4B 5.1H 4.4B 5H 4.2B	3B 6B	0.93H	0.13	0.05	0.04	0.42J		1.15D		
0 - 0.1	4.4B 5.1H 4.4B 5H 4.2B	3B 6B	0.93H	0.13	0.05	0.04	0.42J		1.15D		
0.1 - 0.15	4.3B 5.2H	2B	0.82H	0.12	0.03	0.03	0.58J		1D		
0.1 - 0.15	4.3B 5.2H	2B	0.82H	0.12	0.03	0.03	0.58J		1D		
0.15 - 0.3	4.4B 5.3H	1B	0.34H	0.11	0.02	0.02	0.43J		0.49D		
0.15 - 0.3	4.4B 5.3H	1B	0.34H	0.11	0.02	0.02	0.43J		0.49D		
0.15 - 0.25	4.3B										
0.3 - 0.6	4.8B 6H	1B	0.38H	0.26	0.02	0.07	0.06J		0.73D		
0.3 - 0.6	4.8B 6H	1B	0.38H	0.26	0.02	0.07	0.06J		0.73D		
0.4 - 0.5	4.7B										
0.6 - 0.75	5.2B 6.4H	2B	0.45H	0.71	0.02	0.14	<0.02J		1.32D		
0.6 - 0.75	5.2B 6.4H	2B	0.45H	0.71	0.02	0.14	<0.02J		1.32D		
0.75 - 0.95	5.7B 6.2H	4B	0.8H	2.7	0.02	0.29	<0.02J		3.81D		
0.75 - 0.95	5.7B 6.2H	4B	0.8H	2.7	0.02	0.29	<0.02J		3.81D		
0.95 - 1.25	5.7B 6.2H	4B	0.86H	3.8	0.03	0.37	<0.02J		5.06D		
0.95 - 1.25	5.7B 6.2H	4B	0.86H	3.8	0.03	0.37	<0.02J		5.06D		

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1.25 - 1.4	5.6B 6H	4B	0.76H	3.3	0.02	0.35	<0.02J		4.43D
1.25 - 1.4	5.6B 6H	4B	0.76H	3.3	0.02	0.35	<0.02J		4.43D

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 3.8		1.06D		120B	0.06E						3.6
0 - 0.1 3.8		1.33D 1.06D		160B 120B	0.097E 0.06E						3.6
0 - 0.1 3.8		1.33D 1.06D		160B 120B	0.097E 0.06E						3.6
0 - 0.1 3.8		1.33D 1.06D		160B 120B	0.097E 0.06E						3.6
0 - 0.1 3.8		1.33D 1.06D		160B 120B	0.097E 0.06E						3.6
0 - 0.1 3.8		1.33D 1.06D		160B 120B	0.097E 0.06E						3.6
0.1 - 0.15 4.7		0.76D		84B	0.039E						3.7
0.1 - 0.15 4.7		0.76D		84B	0.039E						3.7
0.15 - 0.3 6.1		0.3D		50B	0.019E						4
0.15 - 0.3 6.1		0.3D		50B	0.019E						4
0.15 - 0.25											
0.3 - 0.6 7.8		0.12D		59B	0.014E						4.4
0.3 - 0.6 7.8		0.12D		59B	0.014E						4.4
0.4 - 0.5											
0.6 - 0.75 15.7		0.08D		72B	0.011E						5.6
0.6 - 0.75 15.7		0.08D		72B	0.011E						5.6
0.75 - 0.95 52.4		0.08D		77B	0.009E						5.6
0.75 - 0.95 52.4		0.08D		77B	0.009E						5.6
0.95 - 1.25 67.3		0.07D		75B	0.009E						5.4
0.95 - 1.25 67.3		0.07D		75B	0.009E						5.4
1.25 - 1.4 59.4		0.08D		71B	0.007E						5.7
1.25 - 1.4 59.4		0.08D		71B	0.007E						5.7

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 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)