Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0552** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Jaki Hogstrom	**Locality:**	
Date Desc.:	11/11/92	**Elevation:**	235 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6286270 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	483590 Datum: AGD84	**Drainage:**	Poorly 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:	Flat	**Relief:**	20 metres
Elem. Type:	Valley flat	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Bleached Sodosolic Salic Hydrosol **Principal Profile Form:** Dy5.42
ASC Confidence: **Great Soil Group:** N/A
All necessary analytical data are available.

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.1 m Very dark grey (5YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moist; Loose consistence; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Abrupt, Tongued change to -

A2e 0.1 - 0.3 m Light brown (7.5YR6/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; Loose consistence; Field pH 6.5 (Raupach); Few, medium (2-5mm) roots; Clear, Wavy change to -

B2 0.3 - 0.5 m Brownish yellow (10YR6/6-Moist); Mottles, 7.5YR58, 10-20% , 5-15mm, Faint; Sandy light clay; Weak grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Wet; Weak consistence; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 8 (Raupach); Few, medium (2-5mm) roots; Clear, Wavy change to -

C 0.5 - 0.9 m Very pale brown (10YR7/4-Moist); , 10YR68, 20-50% , 5-15mm, Prominent; Medium clay; Moderate grade of structure, 50-100 mm, Polyhedral; Rough-ped fabric; Wet; Very firm consistence; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Fragments; Field pH 8 (Raupach);

Morphological Notes

B2 Gritty + coarse sand
C Hole to 130cm, water at 90cm

Observation Notes

Site Notes

Surface salinity 50m away. Should be 253Bo_4.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m				Cmol (+)/kg				%
0 - 0.1	4.7B	29B	1.74H	1.37	0.03	0.5	0.26J		3.64D	
	5.4H	50B								
	4.9B									
	5.5H									
0 - 0.1	4.7B	29B	1.74H	1.37	0.03	0.5	0.26J		3.64D	
	5.4H	50B								
	4.9B									
	5.5H									
0 - 0.1	4.7B	29B	1.74H	1.37	0.03	0.5	0.26J		3.64D	
	5.4H	50B								
	4.9B									
	5.5H									
0 - 0.11	4.66B									
0 - 0.1	4.7B	29B	1.74H	1.37	0.03	0.5	0.26J		3.64D	
	5.4H	50B								
	4.9B									
	5.5H									
0.1 - 0.3	4.7B	11B	0.63H	0.67	<0.02	0.37	0.1J		1.68D	
	5.4H									
0.1 - 0.3	4.7B	11B	0.63H	0.67	<0.02	0.37	0.1J		1.68D	
	5.4H									
0.16 - 0.26	4.15B									
0.3 - 0.5	6B	11B	0.76H	1.45	<0.02	0.46	<0.02J		2.68D	
	6.5H									
0.3 - 0.5	6B	11B	0.76H	1.45	<0.02	0.46	<0.02J		2.68D	
	6.5H									
0.41 - 0.51	5.84B									
0.5 - 0.9	6.1B	22B	0.76H	2.21	0.02	0.41	0.02J		3.4D	
	6.4H									
0.5 - 0.9	6.1B	22B	0.76H	2.21	0.02	0.41	0.02J		3.4D	
	6.4H									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
								GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		1.44D		190B	0.109E						4.2
8											
		1.58D		190B	0.113E						
0 - 0.1		1.44D		190B	0.109E						4.2
8											
		1.58D		190B	0.113E						
0 - 0.1		1.44D		190B	0.109E						4.2
8											
		1.58D		190B	0.113E						
0 - 0.11											
0 - 0.1		1.44D		190B	0.109E						4.2
8											
		1.58D		190B	0.113E						
0.1 - 0.3		0.17D		46B	0.02E						3.1
8.7											
0.1 - 0.3		0.17D		46B	0.02E						3.1
8.7											
0.16 - 0.26											
0.3 - 0.5		0.1D		51B	0.02E						2
20.4											
0.3 - 0.5		0.1D		51B	0.02E						2
20.4											
0.41 - 0.51											

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0.5 - 0.9	0.06D	45B	0.013E	2.8
19.5				
0.5 - 0.9	0.06D	45B	0.013E	2.8
19.5				

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)