

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0738 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Jaki Hogstrom	Locality:	
Date Desc.:	20/04/93	Elevation:	298 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6296030 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	464150 Datum: AGD84	Drainage:	No Data

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Low hills
Morph. Type:	Flat	Relief:	2 metres
Elem. Type:	Valley flat	Slope Category:	No Data
Slope:	1 %	Aspect:	315 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:	Gn4.51
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site No effective disturbance. Natural

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, subangular, ; No surface coarse fragments

Profile

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Moderately moist; 2-10%, fine gravelly, 2-6mm, subangular, , coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.1 - 0.2 m	Brown (10YR5/3-Moist); , 0-0% ; Clay loam, sandy; Moderate grade of structure, Polyhedral; Rough-ped fabric; Moderately moist; 10-20%, fine gravelly, 2-6mm, subangular, , coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Clear change to -
B21	0.2 - 0.45 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 10YR68, 2-10% , 5-15mm, Prominent; Light clay; Moderate grade of structure, Polyhedral; Rough-ped fabric; Moderately moist; 20-50%, fine gravelly, 2-6mm, subangular, , coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B22	0.45 - 0.6 m	Pale yellow (2.5Y7/4-Moist); Mottles, 10YR68, 10-20% , 5-15mm, Prominent; Medium clay; Moderate grade of structure, Polyhedral; Rough-ped fabric; Moderately moist; 10-20%, fine gravelly, 2-6mm, subangular, , coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt change to -
C	0.6 - 0.7 m	Light grey (2.5Y7/2-Moist); Mottles, 10R46, 20-50% , 5-15mm, Prominent; Mottles, 10YR68, 10-20% , 5-15mm, Distinct; Light clay; Massive grade of structure; Moderately moist; 2-10%, fine gravelly, 2-6mm, subangular, , coarse fragments; Field pH 6 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

B22 Very slight dispersion
C Slightly kaolinitic

Observation Notes

Site Notes

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Observation 1

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 - 0.1	4.7B									
0.1 - 0.2	4.6B									
0.2 - 0.6	5B	2B	0.71H	2.56	0.06	0.15	0.08J		3.48D	
	6.1H									
0.2 - 0.6	5B	2B	0.71H	2.56	0.06	0.15	0.08J		3.48D	
	6.1H									
0.3 - 0.4	4.7B									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1								
0.1 - 0.2								
0.2 - 0.6								68.5I 6
	25.5							
0.2 - 0.6								68.5I 6
	25.5							
0.3 - 0.4								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	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_BA	Sum of Bases
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
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
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded