

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0927 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 22/06/93
Map Ref.:
Northing/Long.: 6290070 AMG zone: 50
Easting/Lat.: 583260 Datum: AGD84
Locality:
Elevation: 350 metres
Rainfall: No Data
Runoff: No Data
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: 20 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification: N/A
ASC Confidence: Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Uc2.21
Great Soil Group: N/A

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

Vegetation:

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

Profile

A1p 0 - 0.15 m consistence; Field	Grey (10YR5/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Loose pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -
A2e 0.15 - 0.6 m Moist; Loose	Light reddish brown (2.5YR7/3-Moist); , 0-0% ; Sand; Single grain grade of structure; consistence; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;
A3c 0.6 - 0.7 m structure; Wet; Field pH 6	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of Loose consistence; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; (Raupach); Few, very fine (0-1mm) roots; Clear change to -
B21 0.7 - 0.8 m clay loam; gravelly, 2-6mm, Nodules; Field	Pale yellow (2.5Y7/4-Moist); Mottles, 10YR68, 10-20% , 15-30mm, Distinct; Coarse sandy Weak grade of structure; Rough-ped fabric; Wet; Weak consistence; 20-50%, fine subrounded, , coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), pH 7 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
B22 0.8 - 1 m 10-20% , 15- Weak (10 - 20 %), roots;	Light grey (2.5Y7/2-Moist); Mottles, 2.5YR48, 20-50% , 15-30mm, Prominent; , 10YR68, 30mm, Distinct; Sandy clay loam; Moderate grade of structure; Rough-ped fabric; Moist; consistence; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Common Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach); Few, very fine (0-1mm)

Morphological Notes

A2e pH 15-25 KS in MS
 B21 Very slight dispersion.

Observation Notes

Site Notes

Site on backslope of laterite unit (see diagram). Very poor pasture- patchy with much capeweed and erodium. Sub clover plants small with reddish colour.

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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 - 0.1	4.5B									
0.15 - 0.25	4.5B									
0.4 - 0.5	4.8B									
0.7 - 0.8	5.7B	2B	1.05A	1.02	0.07	0.05			2.19D	
	6.6H									
0.7 - 0.8	5.7B	2B	1.05A	1.02	0.07	0.05			2.19D	
	6.6H									
0.7 - 0.8	5.7B	2B	1.05A	1.02	0.07	0.05			2.19D	
	6.6H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.1									
0.15 - 0.25									
0.4 - 0.5									
0.7 - 0.8								79I	2
19									
0.7 - 0.8								79I	2
19									
0.7 - 0.8								79I	2
19									

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_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15J_BA	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
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
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