

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0867 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 03/06/93	Elevation: 320 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6242500 AMG zone: 50	Runoff: No Data
Easting/Lat.: 518390 Datum: AGD84	Drainage: Imperfectly drained

Geology

ExposureType: Auger boring	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

Morph. Type: Mid-slope	Relief: 20 metres
Elem. Type: Footslope	Slope Category: No Data
Slope: 0 %	Aspect: 45 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Eutrophic Subnatic Red Sodosol	Principal Profile Form: Dr2.11
ASC Confidence:	Great Soil Group: N/A

Analytical data are incomplete but reasonable confidence.

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.12 m	Dark brown (7.5YR3/3-Moist); , 0-0% ; Sandy loam; Weak grade of structure; Rough-ped fabric; Moist;
		Weak consistence; Field pH 6 (Raupach); Abundant, very fine (0-1mm) roots; Abrupt change to -
A3	0.12 - 0.2 m	Brown (7.5YR4/4-Moist); , 0-0% ; Sandy clay loam; Weak grade of structure; Rough-ped fabric;
		Moderately moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field
		pH 6.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -
B21	0.2 - 0.4 m	Yellowish red (5YR4/6-Moist); Mottles, 10YR53, 2-10% , 15-30mm, Faint; Medium clay;
		Strong grade of
		structure; Rough-ped fabric; Moderately moist; Very firm consistence; 10-20%, fine
		gravelly, 2-6mm,
		rounded, , coarse fragments; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20
		mm), Nodules;
		Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Gradual change to -
B22	0.4 - 0.7 m	Strong brown (7.5YR4/6-Moist); Mottles, 0-0% ; Medium clay; Strong grade of structure;
		Rough-ped
		fabric; Moderately moist; Very firm consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Site Notes

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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	4.8B									
0.12 - 0.2	4.8B									
0.2 - 0.4	5B	6B	3.76A	7.78	0.25	2.09			13.88D	
	6.5H									
0.2 - 0.4	5B	6B	3.76A	7.78	0.25	2.09			13.88D	
	6.5H									
0.4 - 0.5	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								
0.12 - 0.2								
0.2 - 0.4								41.5I 13
	45.5							
0.2 - 0.4								41.5I 13
	45.5							
0.4 - 0.5								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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_BASES	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
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