

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0468 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 15/09/92	Elevation: 333 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6250540 AMG zone: 50	Runoff: No Data
Easting/Lat.: 573900 Datum: AGD84	Drainage: Moderately well 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: Crest	Relief: 25 metres
Elem. Type: Summit surface	Slope Category: No Data
Slope: 1 %	Aspect: 270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Hypercalcic Mesonatric Red Sodosol	Principal Profile Form: Dr2.13
ASC Confidence:	Great Soil Group: N/A
All necessary analytical data are available.	

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

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

Profile

A1	0 - 0.06 m	Brown (7.5YR4/2-Moist); , 0-0% ; Clayey sand; Moderate grade of structure, 10-20 mm, Granular;
		Rough-ped fabric; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6 (Raupach);
		Many, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.06 - 0.5 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure; Rough-ped fabric;
		Moderately moist; Weak consistence; Field pH 8.5 (Raupach); Common, fine (1-2mm) roots; Clear change to -
B22	0.5 - 0.75 m	Strong brown (7.5YR5/8-Moist); , 0-0% ; Medium clay; Moderate grade of structure;
		Moderately moist; Weak consistence; Very many (50 - 100 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach); Gradual change to -
C	0.75 - 1 m	Yellowish red (5YR4/6-Moist); Mottles, 2.5YR48, 20-50% , 15-30mm, Faint; Sandy clay loam; Moderate grade of structure; Rough-ped fabric; Dry; Weak consistence; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

20m from dolerite dyke

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.11	5.13B								
0.06 - 0.5	6.2B 7.2H	37B	8.6A	11.1	0.46	5.17		25.33D	
0.06 - 0.5	6.2B 7.2H	37B	8.6A	11.1	0.46	5.17		25.33D	
0.16 - 0.26	6.82B								
0.41 - 0.51	7.79B								

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 - 0.11								
0.06 - 0.5								
0.06 - 0.5								
0.16 - 0.26								
0.41 - 0.51								

Laboratory Analyses Completed for this profile

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