

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0091 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 08/11/91	Elevation: 310 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6267190 AMG zone: 50	Runoff: No Data
Easting/Lat.: 567850 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: Upper-slope	Relief: 30 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 1 %	Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dy3.41
	Great Soil Group: N/A

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 - 0.07 m	Dark grey (10YR4/1-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Field pH 6
		(Raupach); Many, fine (1-2mm) roots; Abrupt change to -
A2e	0.07 - 0.14 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Dry;
		Field pH 6 (Raupach); Few, fine (1-2mm) roots; Abrupt, Wavy change to -
B21t	0.14 - 0.24 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR52, 2-10% , 0-5mm, Faint; , 5R58;
	Sandy medium	clay; Strong grade of structure; Smooth-ped fabric; Dry; Field pH 5.5 (Raupach); Few, fine (1-2mm)
		roots; Clear change to -
B22t	0.24 - 0.48 m	Light brownish grey (10YR6/2-Moist); Mottles, 7.5YR58, 10-20% , 5-15mm, Distinct;
	Medium clay;	Strong grade of structure; Smooth-ped fabric; Moderately moist; Field pH 6 (Raupach);
	Few, fine (1-	2mm) roots;
B23	0.48 - 0.58 m	Light grey (2.5Y7/2-Moist); Mottles, 5YR58, 20-50% , 15-30mm, Distinct; Light medium
	clay; Moderate	grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Field pH
	6.5 (Raupach);	Few, fine (1-2mm) roots;
B3	0.58 - 0.7 m	Light grey (10YR7/1-Moist); Mottles, 5YR58, 10-20% , 5-15mm, Distinct; Sandy light
	medium clay;	Moderately moist; Field pH 6 (Raupach);

Morphological Notes

B21t	SAMPLE.CHARCOAL FRAGMENTS
B22t	+MS
B23	+MS

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				%
0.14 - 0.24	4.5B	22B	0.17H	1.6	<0.02	1.43	0.76J		3.21D	
	5.6H									
0.14 - 0.24	4.5B	22B	0.17H	1.6	<0.02	1.43	0.76J		3.21D	
	5.6H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3				%
0.14 - 0.24									65I		3.5
31.5											
0.14 - 0.24									65I		3.5
31.5											

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
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
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