

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0109 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 15/11/91	Elevation: 290 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6267080 AMG zone: 50	Runoff: No Data
Easting/Lat.: 558520 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: 5 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 1 %	Aspect: 90 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: Uf6.3
	Great Soil Group: N/A

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

Vegetation:

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

Profile

A1	0 - 0.02 m	Black (10YR2/1-Moist); , 0-0% ; Loam; Massive grade of structure; Dry; Field pH 7 (Raupach);
		Abundant, fine (1-2mm) roots; Sharp change to -
B21	0.02 - 0.3 m	Very pale brown (10YR7/3-Moist); Mottles, 10YR41, 10-20% , Distinct; Medium clay; Strong grade of
		structure, 50-100 mm, Polyhedral; Smooth-ped fabric; Dry; Soil matrix is Slightly calcareous; Field pH 9
		(Raupach); Common, medium (2-5mm) roots; Gradual change to -
B22	0.3 - 0.9 m	White (10YR8/1-Moist); Mottles, 7.5YR68, 2-10% , 0-5mm, Faint; Medium clay; Strong grade of
		structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Field pH 8.5 (Raupach);
		Common, medium (2-5mm) roots; Clear change to -
B3	0.9 - 1 m	White (10YR8/1-Moist); Mottles, 2.5YR44, 2-10% , 5-15mm, Prominent; Light clay; Moderate grade of
		structure; Smooth-ped fabric; Moderately moist; Field pH 7.5 (Raupach); Common, medium (2-5mm)
		roots;

Morphological Notes

B21 F QZ, SOME SILT, SAMPLED

Observation Notes

Site Notes

Drainage due to lack of slope

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
				Mg K		Acidity			

m	dS/m		Cmol (+)/kg							%
0.02 - 0.3	7.9B 8.4H	88B	2.38E	4.49	0.4	1.05		8B	8.32D	13.13
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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
0.02 - 0.3	<2C							36.5I	6
57.5									
0.02 - 0.3	<2C							36.5I	6
57.5									
0.02 - 0.3	<2C							36.5I	6
57.5									
0.02 - 0.3	<2C							36.5I	6
57.5									

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_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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