

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0319 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 17/07/92	Elevation: 318 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6272840 AMG zone: 50	Runoff: No Data
Easting/Lat.: 543320 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: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type: Lower-slope	Relief: 40 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 2 %	Aspect: 180 degrees

Surface Soil Condition Firm

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: Dy5.41
	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 - 0.13 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moist; Loose
		consistence; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Sharp, Smooth change to -
A21e	0.13 - 0.25 m	Pale yellow (2.5Y7/4-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Moist; Loose
		consistence; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Abrupt change to -
A22e	0.25 - 0.5 m	Very pale brown (10YR8/3-Moist); Mottles, 2.5Y78, 2-10% , 0-5mm, Distinct; Coarse sand; Single grain
		grade of structure; Wet; Loose consistence; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots;
B2t	0.5 - 0.7 m	Yellow (10YR7/8-Moist); Mottles, 10YR61, 10-20% , 0-5mm, Distinct; Coarse sandy light medium clay;
		Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 6 (Raupach);
C	0.7 - m	Red (2.5YR5/8-Moist); Mottles, 2.5Y86, 20-50% , 0-5mm, Distinct; Coarse sandy light clay; Massive
		grade of structure; Dry; 10-20%, fine gravelly, 2-6mm, angular, Granite, coarse fragments; Field pH 5.5 (Raupach);

Morphological Notes

B2t ESP sampled

Observation Notes

Site Notes

House Rd - 50m upslope of drainage line -EC=950ms/m

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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 - 0.11	4.2B									
0.16 - 0.26	4.03B									
0.41 - 0.51	4.27B									
0.5 - 0.7	4.8B	5B	0.98H	2.05	0.03	0.4	0.05J		3.46D	
	5.8H									
0.5 - 0.7	4.8B	5B	0.98H	2.05	0.03	0.4	0.05J		3.46D	
	5.8H									

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.11								
0.16 - 0.26								
0.41 - 0.51								
0.5 - 0.7								59I 10
31								
0.5 - 0.7								59I 10
31								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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