

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0444 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 10/09/92	Elevation: 326 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6286010 AMG zone: 50	Runoff: No Data
Easting/Lat.: 547150 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: Upper-slope	Relief: 40 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 3 %	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: Dr3.11
	Great Soil Group: N/A

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

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, subangular, Quartz; 2-10%, , subangular, Quartz

Profile

A1 0 - 0.1 m Wet; Loose pH 6	Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy clay loam; Single grain grade of structure; consistence; 2-10%, fine gravelly, 2-6mm, subangular, Dolerite, coarse fragments; Field (Raupach); Many, fine (1-2mm) roots; Sharp, Smooth change to -
2B1t 0.1 - 0.5 m clay; Strong Common, fine	Yellowish red (5YR4/6-Moist); Mottles, 10YR78, 10-20% , 15-30mm, Distinct; Medium grade of structure; Rough-ped fabric; Moist; Firm consistence; Field pH 7.5 (Raupach); (1-2mm) roots; Clear change to -
B22t 0.5 - 0.8 m clay; Strong (Raupach);	Yellowish brown (10YR5/6-Moist); Mottles, 5YR46, 10-20% , 15-30mm, Distinct; Medium grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 8.5 Common, fine (1-2mm) roots; Gradual change to -
B3 0.8 - 1 m Distinct; Medium Clear change to -	Strong brown (7.5YR4/6-Moist); Substrate influence, 10YR66, 20-50% , 15-30mm, clay; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 8.5 (Raupach);
C 1 - 1.2 m Distinct; Medium clay; 10%, fine gravelly,	Strong brown (7.5YR4/6-Moist); Substrate influence, 2.5Y76, 20-50% , 15-30mm, Strong grade of structure; Smooth-ped fabric; Moderately moist; Firm consistence; 2-6mm, subangular, Dolerite, coarse fragments; Field pH 5.5 (Raupach);

Morphological Notes

2B1t Cutans 10YR 3/2, many, distinct, topsoil

Observation Notes

Site Notes

Robinson Road east, at intersection with Trimmer Road

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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	5.3B									
0.1 - 0.5	6.2B	10B	5.18A	6.78	0.48	1.7			14.14D	
	7.6H									
0.1 - 0.5	6.2B	10B	5.18A	6.78	0.48	1.7			14.14D	
	7.6H									
0.16 - 0.26	5.9B									
0.41 - 0.51	6.8B									

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								
0.1 - 0.5								
0.1 - 0.5								
0.16 - 0.26								
0.41 - 0.51								

Laboratory Analyses Completed for this profile

15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_gt2m	> 2mm particle size analysis, (method not recorded)