

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0296 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 25/06/92	Elevation: 276 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6273620 AMG zone: 50	Runoff: No Data
Easting/Lat.: 508950 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: Upper-slope	Relief: 20 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 2 %	Aspect: 270 degrees

Surface Soil Condition Loose

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: Dy5.22
	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 - 0.1 m structure; Single rounded, , coarse (Raupach);	Dark greyish brown (10YR4/2-Moist); , 0-0% ; , 0-0% ; Sand; Single grain grade of grain grade of structure; Moist; Loose consistence; 2-10%, medium gravelly, 6-20mm, fragments; 2-10%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 5.5 Many, fine (1-2mm) roots; Sharp, Smooth change to -
A2 0.1 - 0.35 m Loose 20%, coarse (1-2mm)	Yellow (10YR7/7-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moist; consistence; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 10-gravelly, 20-60mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Common, fine roots; Abrupt change to -
B2t 0.35 - 0.5 m light clay; 50%, coarse Coarse (6 - 20	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Faint; Sandy Moderate grade of structure; Rough-ped fabric; Moderately moist; Weak consistence; 20-gravelly, 20-60mm, rounded, , coarse fragments; Common (10 - 20 %), Ferruginous, mm), Nodules; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B3 0.5 - 0.75 m 10R46, 2-10% Moderately moist;	Brownish yellow (10YR6/8-Moist); Mottles, 2.5Y63, 10-20% , 15-30mm, Distinct; Mottles, , 5-15mm, Distinct; Clay loam, sandy; Weak grade of structure; Rough-ped fabric; Weak consistence; Field pH 8 (Raupach);

Morphological Notes

B2t Sampled for ESP (35-45)
 B3 kaolinite (10%)

Observation Notes

Site Notes

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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	4.8B									
0.16 - 0.26	5.27B									
0.35 - 0.5	6.4B	5B	3.43A	2.71	0.19	0.19			6.52D	
	7H									
0.35 - 0.5	6.4B	5B	3.43A	2.71	0.19	0.19			6.52D	
	7H									
0.41 - 0.51	6.36B									

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³			%	
0 - 0.11											
0.16 - 0.26											
0.35 - 0.5									50.5l		4
	45.5										
0.35 - 0.5									50.5l		4
	45.5										
0.41 - 0.51											

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
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 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)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded