

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1846 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 27/07/94	Elevation: 300 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6258790 AMG zone: 50	Runoff: No Data
Easting/Lat.: 499350 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: Hillcrest	Slope Category: No Data
Slope: 2 %	Aspect: 270 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: Dy3.21
	Great Soil Group: N/A

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

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, angular, Quartz; 10-20%, , angular, Quartz

Profile

A1 0 - 0.1 m Moist; Field pH	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sand; Massive grade of structure; 5.5 (Raupach); Abrupt change to -
A2 0.1 - 0.2 m fine gravelly, Quartz, coarse	Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; 20-50%, 2-6mm, angular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm, angular, fragments; Field pH 5.5 (Raupach); Gradual change to -
A3 0.2 - 0.3 m Moist; 20-50%, 20mm, angular,	Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Clayey sand; Massive grade of structure; fine gravelly, 2-6mm, angular, Quartz, coarse fragments; 10-20%, medium gravelly, 6- Quartz, coarse fragments; Field pH 5.5 (Raupach); Abrupt change to -
B2 0.3 - 0.6 m Medium clay; Gradual change	Light brownish grey (2.5Y6/3-Moist); Mottles, 10YR58, 20-50% , 15-30mm, Distinct; Strong grade of structure; Smooth-ped fabric; Moderately moist; Field pH 6 (Raupach); to -
B3 0.6 - 0.8 m 10-20% , 15- Moderately moist; Field	Light grey (2.5Y7/2-Moist); Mottles, 7.5YR68, 10-20% , 5-15mm, Distinct; Mottles, 10R46, 30mm, Prominent; Medium clay; Strong grade of structure; Smooth-ped fabric; pH 6 (Raupach);

Morphological Notes

B3 Kaolinitic clay

Observation Notes

Site Notes

Site along Hughenden Road - site in saddle between breakaways.

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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 - 0.1	4.4B									
0.1 - 0.2	4.3B									
0.3 - 0.5	4.2B	6B	0.28H	1.4	0.03	0.26	0.69J		1.97D	
	5H									
0.4 - 0.5	4.4B									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1								
0.1 - 0.2								
0.3 - 0.5								57.5I 4.5
38								
0.4 - 0.5								

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