

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1923 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 17/08/94	Elevation: 240 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6266610 AMG zone: 50	Runoff: No Data
Easting/Lat.: 479600 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: Lower-slope	Relief: 20 metres
Elem. Type: Footslope	Slope Category: No Data
Slope: 3 %	Aspect: 180 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 No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.1 m structure; Moist; 10-60mm,	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Massive grade of 20%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 10-20%, coarse gravelly, 20- subrounded, , coarse fragments; Field pH 5.5 (Raupach); Clear change to -
A2 0.1 - 0.35 m structure; Moist; 10- change to -	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey sand; Single grain grade of 20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 6.5 (Raupach); Abrupt
B2 0.35 - 0.5 m Mottles, 2.5YR46, fabric; pH 6.5	Light yellowish brown (2.5Y6/4-Moist); Mottles, 10YR58, 10-20% , 15-30mm, Distinct; 2-10% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure; Rough-ped Moderately moist; 2-10%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field (Raupach); Clear change to -
B31 0.5 - 0.7 m loam; Massive	Strong brown (7.5YR5/6-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Distinct; Sandy clay grade of structure; Moderately moist; Field pH 6 (Raupach); Gradual change to -
B32 0.7 - 0.9 m Moderately moist;	Yellowish brown (10YR5/8-Moist); ; Sandy clay loam; Massive grade of structure; Field pH 6 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Site on P. Dolling's soil acidity experiment on T. Bock's at Qualeup - drained by interceptor banks. Naturally imperfectly drained.

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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	4.7B									
0.15 - 0.25	4.8B									
0.35 - 0.5	5.5B	3B	1.6H	1.6	0.03	0.15	<0.02J		3.38D	
	6.2H									
0.4 - 0.5	5.6B									

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								
0.15 - 0.25								
0.35 - 0.5								53I 7
40								
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