

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1905 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 12/08/94	Elevation: 260 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6251750 AMG zone: 50	Runoff: No Data
Easting/Lat.: 482760 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: 10 metres
Elem. Type: Hillcrest	Slope Category: No Data
Slope: 5 %	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: Dr3.11
	Great Soil Group: N/A

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

Vegetation:

Surface Coarse 10-20%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

Profile

A1	0 - 0.05 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Sandy loam; Massive grade of structure; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -
B2	0.05 - 0.3 m	Red (2.5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Gradual change to -
B3	0.3 - 0.7 m	Light grey (10YR7/2-Moist); Mottles, 10YR36, 20-50% , 15-30mm, Distinct; Light medium clay; Strong grade of structure, Polyhedral; Smooth-ped fabric; Moderately moist; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Gradual change to -
C	0.7 - 0.9 m	White (10YR8/1-Moist); Mottles, 10R36, 10-20% , 15-30mm, Distinct; Clay loam; Strong grade of structure, Polyhedral; Smooth-ped fabric; Moderately moist; Field pH 5 (Raupach);

Morphological Notes

B2	Cutans
B3	Cutans
C	Kaolinitic clay - mottled zone.

Observation Notes

Site Notes

Site on rise along Qualeup South Road - between two saline valley flats.

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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	5.4B								
	5.4B								
0 - 0.1	5.4B								
	5.4B								
0.05 - 0.25	4.5B	24B	1.4H	4.8	0.06	0.78	0.14J		7.04D
	5H								
0.15 - 0.25	4.5B								
0.4 - 0.5	4.2B								

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 - 0.1								
0 - 0.1								
0.05 - 0.25								31I 4.5
64.5								
0.15 - 0.25								
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_CMd	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_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded