

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 2222 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 21/10/94	Elevation: 260 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6261770 AMG zone: 50	Runoff: No Data
Easting/Lat.: 493120 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 rises 9-30m 3-10%	Pattern Type: Rises
Morph. Type: Mid-slope	Relief: 15 metres
Elem. Type: Footslope	Slope Category: No Data
Slope: 4 %	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: Dy3.31
	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

A11 0 - 0.03 m 10-20 mm, Quartz, coarse	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Weak grade of structure, Subangular blocky; Rough-ped fabric; Dry; 20-50%, fine gravelly, 2-6mm, subangular, fragments; Field pH 5.5 (Raupach); Abrupt, Smooth change to -
A12j 0.03 - 0.25 m Dry; 10-20%, 20mm,	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-subrounded, , coarse fragments; Field pH 6 (Raupach); Clear change to -
A2 0.25 - 0.35 m Dry; 10-20%, 20mm,	Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 20-50%, medium gravelly, 6-subrounded, , coarse fragments; Field pH 6 (Raupach); Abrupt change to -
B21 0.35 - 0.5 m clay; Strong (Raupach);	Yellowish brown (10YR5/8-Moist); Mottles, 10YR63, 10-20% , 5-15mm, Distinct; Medium grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 6 Clear change to -
B22 0.5 - 0.7 m heavy clay; Field pH 6	Yellowish brown (10YR5/8-Moist); Mottles, 2.5YR46, 2-10% , 0-5mm, Distinct; Medium Strong grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; (Raupach); Clear change to -
B23 0.7 - 0.85 m 10YR61, 10- Moderately moist;	Brownish yellow (10YR6/8-Moist); Mottles, 7.5YR58, 2-10% , 5-15mm, Distinct; Mottles, 20% , 15-30mm, Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric; Firm consistence; Field pH 5.5 (Raupach);

Morphological Notes

B23 Stopped by hard layer - possibly rock or weathered rock.

Observation Notes

Site Notes

Site along Stirling Road 200 m downslope of granite outcrop. Part of Muradup System. Site on a depression but on a dolerite dyke.

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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	4.8B									
0.15 - 0.25	4.8B									
0.35 - 0.55	5.2B	7B	1.8H	4.7	0.25	0.74	0.02J		7.49D	
	6.2H									
0.4 - 0.5	5.1B									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1											
0.15 - 0.25											
0.35 - 0.55									29.5I		7.5
63											
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 (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