

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0433 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 08/09/92
Map Ref.:
Northing/Long.: 6278960 AMG zone: 50
Easting/Lat.: 562660 Datum: AGD84
Locality:
Elevation: 289 metres
Rainfall: No Data
Runoff: No Data
Drainage: Poorly drained

Geology

Exposure Type: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 3 %
Relief: 25 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition Hardsetting, Hardsetting

Erosion: (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
 Sodic Hypocalcic Grey Dermosol
ASC Confidence:
 Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Uf6.13
Great Soil Group: N/A

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

Vegetation:

Surface Coarse No surface coarse fragments; 2-10%, , subangular, Granite

Profile

A1p 0 - 0.1 m Rough-ped fabric; roots; Abrupt	Dark grey (10YR4/1-Moist); , 0-0% ; Light medium clay; Moderate grade of structure; Moderately moist; Firm consistence; Field pH 7.5 (Raupach); Common, fine (1-2mm) change to -
B21t 0.1 - 0.7 m Rough-ped fabric; Common, fine (1-	Greyish brown (2.5Y5/2-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Dry; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); 2mm) roots; Clear change to -
B22t 0.7 - 1 m Medium clay; Slightly	Greyish brown (2.5Y5/2-Moist); Mechanical, 10YR41, 20-50% , 15-30mm, Distinct; Moderate grade of structure; Rough-ped fabric; Dry; Firm consistence; Soil matrix is calcareous; Field pH 9.5 (Raupach); Common, very fine (0-1mm) roots; Clear change to -
B3 1 - 1.2 m Medium clay; Granite,	Light brownish grey (2.5Y6/2-Moist); Mottles, 10YR66, 10-20% , 5-15mm, Distinct; Rough-ped fabric; Dry; Firm consistence; 20-50%, coarse gravelly, 20-60mm, subangular, coarse fragments; Field pH 9 (Raupach);

Morphological Notes

B22t Mottles due to charcoal - burnt roots - medium size

Observation Notes

Site Notes

good medic pasture (cereal crop 1991). Peter Kerin - medic/cereal rotation - only small area in farm

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity			%
0 - 0.1	7B 7.6H	13B	11.34A	6.32	1.26	0.23		19.15D	
0 - 0.1	7B 7.6H	13B	11.34A	6.32	1.26	0.23		19.15D	
0 - 0.11	7.66B								
0.1 - 0.7	8B 9H	14B	5.53E	6.46	0.33	1.38	14B	13.7D	9.86
0.1 - 0.7	8B 9H	14B	5.53E	6.46	0.33	1.38	14B	13.7D	9.86
0.1 - 0.7	8B 9H	14B	5.53E	6.46	0.33	1.38	14B	13.7D	9.86
0.1 - 0.7	8B 9H	14B	5.53E	6.46	0.33	1.38	14B	13.7D	9.86
0.16 - 0.26	7.69B								
0.41 - 0.51	7.71B								
0.7 - 1	8B 9H	42B	3.43E	7.1	0.52	4.24	14B	15.29D	30.29
0.7 - 1	8B 9H	42B	3.43E	7.1	0.52	4.24	14B	15.29D	30.29
0.7 - 1	8B 9H	42B	3.43E	7.1	0.52	4.24	14B	15.29D	30.29
0.7 - 1	8B 9H	42B	3.43E	7.1	0.52	4.24	14B	15.29D	30.29

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 - 0.1											
0 - 0.11											
0.1 - 0.7	<2C										
0.1 - 0.7	<2C										
0.1 - 0.7	<2C										
0.1 - 0.7	<2C										
0.16 - 0.26											
0.41 - 0.51											
0.7 - 1	<2C										
0.7 - 1	<2C										
0.7 - 1	<2C										
0.7 - 1	<2C										

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_CMR	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
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	

15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	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
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
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)