

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1165 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 17/08/93	Elevation: 289 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6339400 AMG zone: 50	Runoff: No Data
Easting/Lat.: 529960 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: Hillslope	Slope Category: No Data
Slope: 2 %	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: Dr3.22
	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	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Fine sandy clay loam; Massive grade of structure;
		Moderately moist; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -
A21	0.05 - 0.25 m	Reddish brown (5YR4/4-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure;
		Moderately moist;
		20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; Common (10 - 20 %),
		Manganiferous,
		Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach); Common, very fine (0-1mm) roots;
		Clear change to -
A22	0.25 - 0.45 m	Yellowish red (5YR5/6-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure;
		Moderately moist;
		50-90%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Many (20 - 50 %),
		Manganiferous,
		Coarse (6 - 20 mm), Nodules; Field pH 8 (Raupach); Common, very fine (0-1mm) roots;
		Clear change to -
B2t	0.45 - 0.75 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-
		ped fabric; Moderately moist; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments;
		Many (20 - 50 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Field pH 8.5 (Raupach); Gradual change to -
B3	0.75 - 1.2 m	Strong brown (7.5YR5/6-Moist); Mottles, 2.5YR46, 20-50% , 0-5mm, Distinct; Light clay;
		Moderate
		grade of structure; Rough-ped fabric; Moist; 50-90%, fine gravelly, 2-6mm, rounded, ,
		coarse fragments;
		Many (20 - 50 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Field pH 7.5 (Raupach);

Morphological Notes

B3 pH at 90cm. pH at 1200cm

Observation Notes

Site Notes

Site on Whimbin Rock Road reserve - site on lower slope.

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Observation 1

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									
0.15 - 0.25	5.9B									
0.25 - 0.45	6.4B	120B								
	7H									
0.25 - 0.45	6.4B	120B								
	7H									
0.35 - 0.45	6.7B									
0.45 - 0.65	6.9B	128B	1.18A	3.96	0.6	3.23			8.97D	
	7.5H									
0.45 - 0.65	6.9B	128B	1.18A	3.96	0.6	3.23			8.97D	
	7.5H									
0.45 - 0.65	6.9B	128B	1.18A	3.96	0.6	3.23			8.97D	
	7.5H									

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 - 0.1								
0.15 - 0.25								
0.25 - 0.45								
0.25 - 0.45								
0.35 - 0.45								
0.45 - 0.65								61.5I 6
32.5								
0.45 - 0.65								61.5I 6
32.5								
0.45 - 0.65								61.5I 6
32.5								

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_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,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 (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts

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
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)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded