

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0142 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 04/12/91	Elevation: 288 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6333240 AMG zone: 50	Runoff: No Data
Easting/Lat.: 501310 Datum: AGD84	Drainage: Imperfectly drained

Geology

ExposureType: Soil pit	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: Flat	Relief: 20 metres
Elem. Type: Terrace flat	Slope Category: No Data
Slope: 1 %	Aspect: 225 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Eutrophic Mottled-Hypernatric Yellow Sodosol	Principal Profile Form: Gn1.64
ASC Confidence:	Great Soil Group: N/A
All necessary analytical data are available.	

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 - 0.12 m	Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Loamy fine sand; Massive grade of structure; Sandy
		(grains prominent) fabric; Dry; 0-2%, Quartz, coarse fragments; Field pH 5.5 (Raupach);
Abundant, fine		(1-2mm) roots; Abrupt, Smooth change to -
A2	0.12 - 0.7 m	Yellowish brown (10YR5/8-Moist); , 0-0% ; Clayey fine sand; Massive grade of structure;
Sandy (grains		prominent) fabric; Dry; 2-10%, coarse fragments; Field pH 5.5 (Raupach); Many, fine (1-
2mm) roots;		Clear, Wavy change to -
B1	0.7 - 0.87 m	Yellowish brown (10YR5/8-Moist); Mottles, 5YR6/8, 20-50% , 30-mm, Distinct; Coarse
sandy clay loam;		Massive grade of structure; Sandy (grains prominent) fabric; Dry; 10-20%, Quartz, coarse
fragments;		Field pH 6 (Raupach); Clear, Wavy change to -
B2	0.87 - 1.13 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR7/4, 20-50% , 15-30mm, Distinct; Clay
loam, fine sandy;		Weak grade of structure, 50-100 mm, Subangular blocky; Rough-ped fabric; Dry; Field pH
6 (Raupach);		Clear, Wavy change to -
B3	1.13 - 1.3 m	Light brownish grey (2.5Y6/2-Moist); Mottles, 10YR6/8, 10-20% , 0-5mm, Faint; Fine
sandy light clay;		Massive grade of structure; Dry; Field pH 6.5 (Raupach);

Morphological Notes

A1	F U QZ
A2	F U QZ & IS & F N IS
B1	F,M S QZ & FEW IS

Observation Notes

Site Notes

Very good annual clover cover

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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 - 0.12	4.2B 5.2H	4B	1.29H	0.24	0.06	0.08	0.61J		1.67D	
0 - 0.12	4.2B 5.2H	4B	1.29H	0.24	0.06	0.08	0.61J		1.67D	
0.12 - 0.7	4.4B 5.5H	2B	1H	0.2	0.03	0.1	0.24J		1.33D	
0.12 - 0.7	4.4B 5.5H	2B	1H	0.2	0.03	0.1	0.24J		1.33D	
0.7 - 0.87	5.4B 6H	22B	0.56H	2.67	0.02	1.42	0.06J		4.67D	
0.7 - 0.87	5.4B 6H	22B	0.56H	2.67	0.02	1.42	0.06J		4.67D	
0.87 - 1.13	5B 6.5H	12B	0.47H	4.88	0.05	2.57	0.02J		7.97D	
0.87 - 1.13	5B 6.5H	12B	0.47H	4.88	0.05	2.57	0.02J		7.97D	
1.13 - 1.3	4.5B 5.9H	20B	0.29H	8.03	0.03	4.56	0.12J		12.91D	
1.13 - 1.3	4.5B 5.9H	20B	0.29H	8.03	0.03	4.56	0.12J		12.91D	

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 - 0.12		1.34D		130B	0.094E						3.9
5.6											
0 - 0.12		1.34D		130B	0.094E						3.9
5.6											
0.12 - 0.7		0.29D		35B	0.018E						2.7
6.1											
0.12 - 0.7		0.29D		35B	0.018E						2.7
6.1											
0.7 - 0.87		0.14D		22B	0.008E						1
25.6											
0.7 - 0.87		0.14D		22B	0.008E						1
25.6											
0.87 - 1.13		0.18D		20B	0.014E						6.2
28.6											
0.87 - 1.13		0.18D		20B	0.014E						6.2
28.6											
1.13 - 1.3		0.24D		21B	0.006E						18.6
25.4											
1.13 - 1.3		0.24D		21B	0.006E						18.6
25.4											

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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

4B_AL_NR Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded

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4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)