Project Name: Katanning land resources survey

Project Code: KLC Site ID: 0497 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality:

Date Desc.:07/10/92Elevation:321 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6343800 AMG zone: 50 Runoff: No Data

Easting/Lat.: 516400 Datum: AGD84 Drainage: Moderately well drained

Geology

ExposureType:Soil pitConf. Sub. is Parent. Mat.:No DataGeol. Ref.:No DataSubstrate Material:No Data

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10% Pattern Type: Low hills

Morph. Type:Mid-slopeRelief:30 metresElem. Type:HillslopeSlope Category:No DataSlope:2 %Aspect:180 degrees

<u>Surface Soil Condition</u> Firm <u>Erosion:</u> (wind); (sheet) (rill) (gully)

Soil Classification

 Australian Soil Classification:
 Mapping Unit:
 N/A

 Ferric Mesotrophic Grey Chromosol
 Principal Profile Form:
 Dy5.41

 ASC Confidence:
 Great Soil Group:
 N/A

All necessary analytical data are available.

<u>Site</u> Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Surface Coar

<u>Surface Coarse</u> 10-20%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

Profile

A1 0 - 0.15 m Very dark greyish brown (10YR3/2-Moist); , 0-0%; Loamy sand; Single grain grade of

structure; Moist;

Loose consistence; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments;

Field pH 6

(Raupach); Abundant, fine (1-2mm) roots; Abrupt, Smooth change to -

A2e 0.15 - 0.3 m

Loose

 $Light\ brownish\ grey\ (10YR6/2-Moist);\ ,\ 0-0\%\ ;\ Sand;\ Single\ grain\ grade\ of\ structure;\ Wet;$

consistence; 20-50%, coarse gravelly, 20-60mm, subrounded, , coarse fragments; 20-

50%, medium

gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6 (Raupach); Abundant, fine (1-

2mm) roots;
Abrupt, Wavy change to -

B2t 0.3 - 0.8 m

Sandy light clay;

Light brownish grey (10YR6/2-Moist); Mottles, 7.5YR58, 20-50%, 15-30mm, Distinct;

Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Moderately moist;

Weak

consistence; 20-50%, coarse gravelly, 20-60mm, subrounded, , coarse fragments;

Common (10 - 20 %),

Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.5 (Raupach); Common, fine (1-

2mm) roots;

Gradual, Smooth change to -

C 0.8 - 1.2 m

White (10YR8/1-Moist); Mottles, 10R46, 20-50% , 30-mm, Distinct; Light medium clay;

Weak grade of

structure, 50-100 mm, Polyhedral; Rough-ped fabric; Dry; Firm consistence; Field pH 6

(Raupach);

Morphological Notes

Observation Notes

Site Notes

Narrakine Gully soil pit No. 3 PSA of B2 horizon (15%) doesn't agree with field texture; B2 may be a reticulite layer.

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Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Oa	wg	N.		(+)/kg			%
0 - 0.15	5B 5.8H	6B	5.62H	0.73	0.06	0.07	0.32J		6.48D	
0 - 0.1	4.8B 5.6H	10B								
0 - 0.15	5B 5.8H	6B	5.62H	0.73	0.06	0.07	0.32J		6.48D	
0 - 0.11	5.08B									
0 - 0.1	4.8B 5.6H	10B								
0.15 - 0.3	5B 6H	2B	0.76H	0.2	0.03	0.04	0.12J		1.03D	
0.15 - 0.3	5B 6H	2B	0.76H	0.2	0.03	0.04	0.12J		1.03D	
0.16 - 0.26	4.95B									
0.3 - 0.8	5.6B 6.5H	2B	0.93H	0.79	0.04	0.11	0.03J		1.87D	
0.3 - 0.8	5.6B 6.5H	2B	0.93H	0.79	0.04	0.11	0.03J		1.87D	
0.41 - 0.51	5.42B									
0.8 - 1.2	5.1B 6H	6B	0.11H	2.56	0.04	0.51	0.03J		3.22D	
0.8 - 1.2	5.1B 6H	6B	0.11H	2.56	0.04	0.51	0.03J		3.22D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	G۷	e Size FS	Analysis Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3		%	
0 - 0.15 4.7		2.64D		310B	0.171E					4.7
0 - 0.1 0 - 0.15 4.7 0 - 0.11		2.15D 2.64D		260B 310B	0.144E 0.171E					4.7
0 - 0.11 0 - 0.1 0.15 - 0.3 4.3		2.15D 0.34D		260B 78B	0.144E 0.02E					3.2
0.15 - 0.3 4.3		0.34D		78B	0.02E					3.2
0.16 - 0.26 0.3 - 0.8 15.9		0.2D		63B	0.01E					4.2
0.3 - 0.8 15.9		0.2D		63B	0.01E					4.2
0.41 - 0.51 0.8 - 1.2 45.3		0.1D		65B	0.006E					3.9
0.8 - 1.2 45.3		0.1D		65B	0.006E					3.9

Laboratory Analyses Completed for this profile

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
15E1_AL	Exchangeable AI - 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

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Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_NA

Sum of Bases

15J_BASES 15N1_b Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations

18A1_NR Bicarbonate-extractable potassium (not recorded) 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

pH of 1:5 soil/0.01M calcium chloride extract - direct 4B1 6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method 7A1 Total nitrogen - semimicro Kjeldahl, steam distillation

9A3 Total Phosphorus (ppm) - semimicro kjeldahl, automated colour

9B_NR Bicarbonate-extractable phosphorus (not recorded)

Anion storage capacity 9H1

1000 to 2000u particle size analysis, (method not recorded) P10_1m2m P10_20_75 20 to 75u particle size analysis, (method not recorded) P10_75_106 75 to 106u particle size analysis, (method not recorded) > 2mm particle size analysis, (method not recorded)
Clay (%) - Not recorded
Sand (%) - Not recorded arithmetic difference, auto generated P10_gt2m P10_NR_C

P10_NR_Saa

P10_NR_Z Silt (%) - Not recorded

P10106_150 106 to 150u particle size analysis, (method not recorded) P10150_180 P10180_300 150 to 180u particle size analysis, (method not recorded) 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)