Project Name: Katanning land resources survey

Project Code: KLC Site ID: 0723 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality: 19/02/93 Elevation:

Date Desc.:

Map Ref.: Rainfall: No Data Northing/Long.: 6330040 AMG zone: 50 Runoff: No Data Drainage: Rapidly drained

537840 Datum: AGD84 Easting/Lat.:

Geology

ExposureType: Soil pit 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: Relief. 25 metres Upper-slope Elem. Type: Hillslope Slope Category: No Data Slope: 6 % Aspect: 0 degrees

Surface Soil Condition Firm Erosion: (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Bleached-Ferric Magnesic Brown Kurosol **Principal Profile Form:** Dy5.81 **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 50-90%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

Profile

0 - 0.12 m Very dark greyish brown (10YR3/2-Moist); , 0-0%; Loamy sand; Single grain grade of

structure; Dry;

Loose consistence; 50-90%, medium gravelly, 6-20mm, subrounded, , coarse fragments;

325 metres

Strongly water

repellent, "Field pH 5.5 (Raupach); Abundant, fine (1-2mm) roots; Sharp, Smooth change

to -

A2e 0.12 - 0.4 m Pale brown (10YR6/3-Moist); , 0-0%; Single grain grade of structure; Dry; Loose

consistence; 50-90%,

medium gravelly, 6-20mm, subrounded, , coarse fragments; 10-20%, coarse gravelly, 20-

60mm,

subrounded, , coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Clear,

Tongued

(Raupach); Few, fine (1-2mm) roots; Gradual, Irregular change to -

change to -

B2t 0.4 - 0.8 m Yellowish brown (10YR5/8-Moist); Mottles, 10R36, 20-50%, 5-15mm, Prominent; Sandy

clay loam;

Massive grade of structure; Dry; Strong consistence; 50-90%, coarse gravelly, 20-60mm,

subrounded,,

coarse fragments; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH

5.5

2C 0.8 - 1.3 m Red (10R4/8-Moist); Mottles, 10YR72, 20-50%, 30-mm, Prominent; Mottles, 10YR68, 10-

20% , 15-

30mm, Distinct; Light clay; Weak grade of structure, 10-20 mm, Polyhedral; Smooth-ped

fabric; Dry; Very

firm consistence; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; Few (2 - 10

%),

Ferruginous, Medium (2 -6 mm), Nodules; Field pH 5.5 (Raupach);

Morphological Notes

Highly organic (humic)

B2t Appears to be layered. Roots in cracks/in cemented layer

Roots in cracks extend into this layer

Observation Notes

Site Notes

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Laboratory	y Test Results:

Depth	рН	1:5 EC		hangeable Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	wig	K	Cmol (%
0 - 0.12	5.3B 6H	20B	12.92H	2.51	1.05	0.3	0.1J		16.78	D
0 - 0.1	5.4B 6.1H 5.2B	22B								
0 - 0.12	5.3B 6H	20B	12.92H	2.51	1.05	0.3	0.1J		16.78	D
0 - 0.1	5.4B 6.1H 5.2B	22B								
0 - 0.1	5.4B 6.1H 5.2B	22B								
0.12 - 0.4	4.7B 5.7H	2B	1.2H	0.48	0.12	0.05	0.32J		1.850)
0.12 - 0.4	4.7B 5.7H	2B	1.2H	0.48	0.12	0.05	0.32J		1.850)
0.15 - 0.25 0.4 - 0.8	4.7B 4.5B	4B	0.48H	1.63	0.12	0.15	0.21J		2.380)
0.4 - 0.8	5.3H 4.5B 5.3H	4B	0.48H	1.63	0.12	0.15	0.21J		2.380)
0.4 - 0.5 0.8 - 1.2	4.4B 4.8B	9B	0.14H	3.05	0.04	0.54	0.04J		3.770)
0.8 - 1.2	5.4H 4.8B 5.4H	9B	0.14H	3.05	0.04	0.54	0.04J		3.770)
Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Tota K		Pa GV	article Size CS FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.12 3.3		6.51D		480B	0.44	18E				3.5
0 - 0.1 0 - 0.12 3.3		7.69D 6.51D		780B 480B	0.59 0.44					3.5
0 - 0.1 0 - 0.1		7.69D 7.69D		780B 780B	0.59 0.59					
0.12 - 0.4 7.1		0.67D		65B	0.04					4
0.12 - 0.4 7.1 0.15 - 0.25		0.67D		65B	0.04	11E				4
0.4 - 0.8 24.3		0.21D		30B	0.01	14E				4.2
0.4 - 0.8 24.3 0.4 - 0.5		0.21D		30B	0.01	14E				4.2
0.4 - 0.5 0.8 - 1.2 57.6		0.13D		28B	0.01	1E				8.6
0.8 - 1.2 57.6		0.13D		28B	0.01	1E				8.6

Laboratory Analyses Completed for this profile

15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available 15_NR_CMR 15E1_AL Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts

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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

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 4R1

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method 7A1 Total nitrogen - semimicro Kjeldahl, steam distillation 9A3 Total Phosphorus (ppm) - semimicro kjeldahl, automated colour

Bicarbonate-extractable phosphorus (not recorded) 9B_NR

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 P10_NR_C > 2mm particle size analysis, (method not recorded)

Clay (%) - Not recorded
Sand (%) - Not recorded arithmetic difference, auto generated P10_NR_Saa

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)