Project Name: Katanning land resources survey

Project Code: KLC Site ID: 0555 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Jaki Hogstrom Locality:

Date Desc.:16/11/92Elevation:240 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6286870 AMG zone: 50 Runoff: No Data

Easting/Lat.: 483500 Datum: AGD84 Drainage: Moderately well drained

<u>Geology</u>

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

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10% Pattern Type: Rises Upper-slope Relief. 20 metres Morph. Type: Elem. Type: Hillslope Slope Category: No Data Slope: 7 % Aspect: 270 degrees

Surface Soil Condition Hardsetting, Hardsetting

Tardsetting, hardsetting, hardsetting

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

Soil Classification

Australian Soil Classification:Mapping Unit:N/ASodic Eutrophic Black DermosolPrincipal Profile Form:Gn4.43ASC 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 Coa

Surface Coarse

No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.1 m Very dusky red (2.5YR2/2-Moist); , 0-0%; Clay loam; Weak grade of structure, 5-10 mm,

Polyhedral;

Rough-ped fabric; Moderately moist; Very weak consistence; Field pH 6 (Raupach);

Abundant, fine (1-

2mm) roots; Abrupt, Tongued change to -

B1 0.1 - 0.3 m V

10 mm,

Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Light clay; Weak grade of structure, 5- $\,$

Polyhedral; Rough-ped fabric; Moderately moist; Very weak consistence; Field pH 6

(Raupach); Many,

fine (1-2mm) roots; Abrupt, Wavy change to -

B21 0.3 - 0.55 m

structure, 100-200

Very dark greyish brown (2.5Y3/2-Moist); , 0-0% ; Medium clay; Moderate grade of

mm, Columnar; Rough-ped fabric; Moderately moist; Very strong consistence; Field pH 6

(Raupach);

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

B22 0.55 - 1.1 m

Polyhedral;

Olive grey (5Y4/2-Moist); , 0-0% ; Medium clay; Strong grade of structure, 20-50 mm,

Rough-ped fabric; Dry; Very strong consistence; Field pH 8 (Raupach); Few, very fine (0-

1mm) roots;

Clear, Wavy change to -

Cr 1.1 - 1.5 m

sand; Massive

Yellow (2.5Y8/6-Moist); Substrate influence, 2.5Y43, 20-50%, 15-30mm, Distinct; Clayey

grade of structure; Dry; Firm consistence; Soil matrix is Moderately calcareous; Field pH

9.5 (Raupach);

Few, very fine (0-1mm) roots;

Morphological Notes

Cr Weathered rock - dolerite and granite

Observation Notes

Site Notes

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Laboratory Test Results:

Laboratory	rest Re	esuits:								
Depth	рН	1:5 EC		hangeable		NI-	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol	Acidity (+)/kg			%
							. , .			
0 - 0.1	5B	7B	8.8H	1.58	0.46	0.32	0.17J		11.16D	
	5.9H 5.1B	13B								
	5.9H									
0 - 0.1	5B	7B	8.8H	1.58	0.46	0.32	0.17J		11.16D	
	5.9H 5.1B	13B								
	5.9H									
0 - 0.1	5B 5.9H	7B	8.8H	1.58	0.46	0.32	0.17J		11.16D	
	5.1B	13B								
	5.9H									
0 - 0.11 0 - 0.1	5.36B 5B	7B	8.8H	1.58	0.46	0.32	0.17J		11.16D	
0 - 0.1	5.9H	13B	0.011	1.50	0.40	0.52	0.173		11.100	
	5.1B									
0.1 - 0.3	5.9H 5B	2B	9.13H	1.62	0.45	0.33	0.19J		11.53D	
0.1 - 0.5	6.4H	20	3.1311	1.02	0.40	0.00	0.133		11.550	
0.1 - 0.3	5B	2B	9.13H	1.62	0.45	0.33	0.19J		11.53D	
0.16 - 0.26	6.4H 4.92B									
0.3 - 0.55	5.6B	3B	12.12A	9.92	0.16	1.17			23.37D	
0.2 0.55	7.1H	2D	10 10 1	0.00	0.16	1 17			22.270	
0.3 - 0.55	5.6B 7.1H	3B	12.12A	9.92	0.16	1.17			23.37D	
0.41 - 0.51	6.07B									
0.55 - 1.1	7.1B 8.7H	6B	13.7E	10.04	0.14	2.12		27B	26D	7.85
0.55 - 1.1	7.1B	6B	13.7E	10.04	0.14	2.12		27B	26D	7.85
	8.7H									
0.55 - 1.1	7.1B 8.7H	6B	13.7E	10.04	0.14	2.12		27B	26D	7.85
1.1 - 1.5	7.8B	8B	10.33E	6.5	0.03	2		17B	18.86D	11.76
44.45	9.2H	0.0	40.005	0.5	0.00	0		470	40.0CD	44.70
1.1 - 1.5	7.8B 9.2H	8B	10.33E	6.5	0.03	2		17B	18.86D	11.76
1.1 - 1.5	7.8B	8B	10.33E	6.5	0.03	2		17B	18.86D	11.76
	9.2H									
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	al Bulk	Pa	rticle Size Ar	alysis
•		C	Р	Р	N	K	Density	GV	CS FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3		%	
							J			
0 - 0.1		2.12D		290B	0.18	32E				15.2
12.6		2.84D		320B	0.22)3E				
0 - 0.1		2.12D		290B	0.18					15.2
12.6		0.045		2005	0.00)OF				
0 - 0.1		2.84D 2.12D		320B 290B	0.22 0.18					15.2
12.6										
0 - 0.11		2.84D		320B	0.22	23E				
0 - 0.11										

Project Name Project Code:	: K	atanning land LC	Site ID:	0555	Observation	1	
Agency Name	e: A	griculture Wes	tern Austra	ılıa			
0 - 0.1 12.6		2.12D	290B	0.182E			15.2
0.1 - 0.3 25.6		2.84D 0.94D	320B 200B	0.223E 0.084E			14.2
0.1 - 0.3 25.6		0.94D	200B	0.084E			14.2
0.16 - 0.26 0.3 - 0.55 47.3		0.43D	55B	0.046E			10.1
0.3 - 0.55 47.3		0.43D	55B	0.046E			10.1
0.41 - 0.51 0.55 - 1.1 51.4	<2C	0.4D	35B	0.033E			8.5
0.55 - 1.1 51.4	<2C	0.4D	35B	0.033E			8.5
0.55 - 1.1 51.4	<2C	0.4D	35B	0.033E			8.5
1.1 - 1.5 6.3	<2C	0.04D	48B	0.007E			4.6
1.1 - 1.5 6.3	<2C	0.04D	48B	0.007E			4.6
1.1 - 1.5 6.3	<2C	0.04D	48B	0.007E			4.6

Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR 15A1_CA for soluble	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC 15A1_K for soluble	salts Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC 15C1_K soluble salts	soluble salts CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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
15E1_AL 15E1_CA salts	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K 15E1_MG 15E1_MN 15E1_NA 15J_BASES 15L1_a Sum of Cations	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Sum of Bases
	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay

Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC 15N1_a

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

Bicarbonate-extractable potassium (not recorded)
Calcium Carbonate (CaCO3) - Not recorded 18A1_NR 19B_NR

3_NR 4_NR

Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded Aluminum in 15 soil/0.01M calcium chloride extract - method not recorded 4B_AL_NR

4B1 pH of 1:5 soil/0.01M calcium chloride extract - direct

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method Total Phosphorus (ppm) - semimicro kjeldahl, steam distillation
Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
Bicarbonate-extractable phosphorus (not recorded) 7A1

9A3

9B_NR

9H1 Anion storage capacity

1000 to 2000u particle size analysis, (method not recorded) P10_1m2m

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P10_20_75 P10_75_106 P10_gt2m P10_NR_C P10_NR_Saa P10_NR_Z P10106_150 P10150_180 20 to 75u particle size analysis, (method not recorded) 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
Silt (%) - Not recorded
106 to 150u particle size analysis, (method not recorded)
150 to 180u particle size analysis, (method not recorded) P10180_300 180 to 300u particle size analysis, (method not recorded) P10300_600 P106001000 300 to 600u particle size analysis, (method not recorded) 600 to 1000u particle size analysis, (method not recorded)