Project Name: Katanning land resources survey

Project Code: KLC Site ID: 0160 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality:

Date Desc.:14/04/92Elevation:319 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6271790 AMG zone: 50 Runoff: No Data

Easting/Lat.: 554330 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:40 metresElem. Type:HillslopeSlope Category:No DataSlope:4 %Aspect:270 degrees

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

Soil Classification

 Australian Soil Classification:
 Mapping Unit:
 N/A

 Ferric Mottled-Subnatric Yellow Sodosol
 Principal Profile Form:
 Dy5.62

 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 20-50%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

Profile

A1 0 - 0.1 m Dark greyish brown (10YR4/2-Moist); , 0-0%; Loamy fine sand; Single grain grade of

structure; Dry; 20-50%, medium gravelly, 6-20mm, rounded, Ironstone, coarse fragments; Field pH 5

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

A2 0.1 - 0.3 m Yellowish brown (10YR5/4-Moist); , 0-0%; Clayey coarse sand; Single grain grade of structure; Dry; 20-

50%, medium gravelly, 6-20mm, rounded, Ironstone, coarse fragments; Field pH 5.5

(Raupach);

Common, fine (1-2mm) roots; Clear, Tongued change to -

B2t 0.3 - 1 m light clay; Weak Brownish yellow (10YR6/8-Moist); Mottles, 5YR58, 10-20% , 15-30mm, Distinct; Sandy

grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; 20-50%, fine gravelly, 2-6mm,

subangular, Ironstone, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm),

Nodules; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Gradual, Wavy change to -

C 1 - 1.5 m

White (10YR8/2-Moist); Mottles, 10YR68, 20-50%, 15-30mm, Distinct; Mottles, 2.5YR48,

20-50% , 15-

30mm, Distinct; Light clay; Moderate grade of structure, 20-50 mm, Polyhedral; Smooth-

ped fabric; Dry; Field pH 8 (Raupach);

Morphological Notes

A1 + 3 R IS A2 + 3 R IS

B2t BELOW 60CM PARTIAL DISPERSION. VERY COARSE OLD ROOTS STOP AT TOP OF

L4

C KAOLINITE. SUBPLASTIC.

Observation Notes

Site Notes

Water movement through preferred flowpaths

Project Name: Katanning land resources survey
Project Code: KLC Site ID: 0160
Agency Name: Agriculture Western Australia

Observation 1

Laboratory Test Results	L	borato	rv Test	Results:
-------------------------	---	--------	---------	----------

Depth	pH	1:5 EC		hangeable		Na	Exchangeable	CEC I	ECEC ESP
m		dS/m	Са	Mg	K	Na Cmol	Acidity (+)/kg		%
0 - 0.1	5B 5.8H 5.1B 6H	8B 7B	3H	0.88	0.23	0.11	0.15J	4	1.22D
0 - 0.1	5B 5.8H 5.1B 6H	8B 7B	3H	0.88	0.23	0.11	0.15J	4	I.22D
0 - 0.1	5B 5.8H 5.1B 6H	8B 7B	3H	0.88	0.23	0.11	0.15J	4	I.22D
0 - 0.11 0 - 0.1	4.88B 5B 5.8H 5.1B 6H	8B 7B	ЗН	0.88	0.23	0.11	0.15J	4	1.22D
0.1 - 0.3	5.2B 6.3H	2B	1.05H	0.54	0.07	0.04	0.06J		1.7D
0.1 - 0.3	5.2B 6.3H	2B	1.05H	0.54	0.07	0.04	0.06J		1.7D
0.16 - 0.26 0.3 - 0.5	5.03B 5.9B	6B	1.06A	3.35	0.13	0.33		4	1.87D
0.3 - 0.6	6.6H 5.7B 6.6H	4B	0.89H	2.29	0.08	0.22	0.03J	3	3.48D
0.3 - 0.6	5.7B 6.6H	4B	0.89H	2.29	80.0	0.22	0.03J	3	3.48D
0.3 - 0.5	5.9B 6.6H	6B	1.06A	3.35	0.13	0.33		4	1.87D
0.41 - 0.51 0.6 - 1	5.88B 6.8B 7.8H	11B	0.46A	6.71	0.08	0.97		8	3.22D
0.6 - 1	6.8B 7.8H	11B	0.46A	6.71	80.0	0.97		8	3.22D
1 - 1.5	6.9B 7.6H	29B	0.11A	8.2	0.04	1.81		1	0.16D
1 - 1.5	6.9B 7.6H	29B	0.11A	8.2	0.04	1.81		1	0.16D
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tot K		Particle :	Size Analysis FS Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3		%
0 - 0.1 6.6		1.85D		260B	0.13	3E			4.4
0 - 0.1		2.06D 1.85D		240B 260B	0.15 0.13				4.4
6.6 0 - 0.1		2.06D 1.85D		240B 260B	0.15 0.13				4.4
6.6 0 - 0.11		2.06D		240B	0.15	53E			
- 3									

Project Name:	esources su	ırvey				
Project Code: Agency Name:	KLC Agriculture West)160 a	Observation	1	
0 - 0.1 6.6	1.85D	260B	0.13E			4.4
0.1 - 0.3 8.3	2.06D 0.38D	240B 70B	0.153E 0.02E			3.4
0.1 - 0.3 8.3	0.38D	70B	0.02E			3.4
0.16 - 0.26 0.3 - 0.5 50					44.5I	5.5
0.3 - 0.6 32.1	0.21D	53B	0.01E			3.7
0.3 - 0.6 32.1	0.21D	53B	0.01E			3.7
0.3 - 0.5 50					44.51	5.5
0.41 - 0.51 0.6 - 1 58.7	0.18D	73B	0.01E			5.4
0.6 - 1 58.7	0.18D	73B	0.01E			5.4
1 - 1.5 56.2	0.8D	110B	0.005E			14.4
1 - 1.5 56.2	0.8D	110B	0.005E			14.4

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 salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_AL 15E1_CA salts	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	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
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a 15N1_b 18A1_NR 3_NR 4_NR	and measured clay Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Bicarbonate-extractable potassium (not recorded) Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded
4B_AL_NR 4B1 6A1_UC 7A1 9A3 9B_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 Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Bicarbonate-extractable phosphorus (not recorded)
9H1 P10_1m2m	Anion storage capacity 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_S	Sand (%) - 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)

Project Name: Project Code: Agency Name: Katanning land resources survey KLC Site ID: 0160 Agriculture Western Australia

Observation 1

P10300_600 P106001000 300 to 600u particle size analysis, (method not recorded) 600 to 1000u particle size analysis, (method not recorded)