Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0798** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 13/05/93
Map Ref.:
Northing/Long.: 6344070 AMG zone: 50
Easting/Lat.: 542680 Datum: AGD84
Locality:
Elevation: 300 metres
Rainfall: No Data
Runoff: No Data
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 0 %
Pattern Type: Alluvial plain
Relief: 1 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Poached, Hardsetting

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

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Uf6.1
Great Soil Group: N/A

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

Ap 0 - 0.1 m Dark grey (2.5Y4/1-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Wet; Very weak consistence; Field pH 7.5 (Raupach); Many, very fine (0-1mm) roots; Sharp, Smooth change to -

B21 0.1 - 0.35 m Light grey (5Y7/1-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Common, very fine (0-1mm) roots;

B22k 0.35 - 0.75 m Light grey (5Y7/1-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach); Few, very fine (0-1mm) roots;

B23 0.75 - 0.95 m Light grey (5Y7/1-Moist); Mottles, 7.5YR68, 2-10% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Moist; Weak consistence; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

B23 Watertable at 95cm. With medium sand in medium clay

Observation Notes

Site Notes

East Narrogin Soil Pit (Colin Roberts)

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.3B	6B	3.4A	2.58	0.19	0.56			6.73D	
	6.7H	15B								
	6B									
	6.9H									
	5.3B									
0 - 0.1	5.3B	6B	3.4A	2.58	0.19	0.56			6.73D	
	6.7H	15B								
	6B									
	6.9H									
	5.3B									
0 - 0.1	5.3B	6B	3.4A	2.58	0.19	0.56			6.73D	
	6.7H	15B								
	6B									
	6.9H									
	5.3B									
0 - 0.1	5.3B	6B	3.4A	2.58	0.19	0.56			6.73D	
	6.7H	15B								
	6B									
	6.9H									
	5.3B									
0 - 0.1	5.3B	6B	3.4A	2.58	0.19	0.56			6.73D	
	6.7H	15B								
	6B									
	6.9H									
	5.3B									
0.1 - 0.35	8.3B	58B	4.71E	5.72	0.39	3.78		14B	14.6D	27.00
	9.2H									
0.1 - 0.35	8.3B	58B	4.71E	5.72	0.39	3.78		14B	14.6D	27.00
	9.2H									
0.1 - 0.35	8.3B	58B	4.71E	5.72	0.39	3.78		14B	14.6D	27.00
	9.2H									
0.15 - 0.25	7.5B									
0.35 - 0.75	8.5B	131B	3.24E	5.08	0.41	3.38		12B	12.11D	28.17
	9.2H									
0.35 - 0.75	8.5B	131B	3.24E	5.08	0.41	3.38		12B	12.11D	28.17
	9.2H									
0.35 - 0.75	8.5B	131B	3.24E	5.08	0.41	3.38		12B	12.11D	28.17
	9.2H									
0.4 - 0.5	8.1B									
0.75 - 0.95	8.2B	152B	2.99E	5.99	0.49	4.04		13B	13.51D	31.08
	8.8H									
0.75 - 0.95	8.2B	152B	2.99E	5.99	0.49	4.04		13B	13.51D	31.08
	8.8H									
0.75 - 0.95	8.2B	152B	2.99E	5.99	0.49	4.04		13B	13.51D	31.08
	8.8H									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		1.19D		120B	0.068E						8.9
14.6											

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		1.16D	120B	0.065E	
0 - 0.1		1.19D	120B	0.068E	8.9
14.6					
		1.16D	120B	0.065E	
0 - 0.1		1.19D	120B	0.068E	8.9
14.6					
		1.16D	120B	0.065E	
0 - 0.1		1.19D	120B	0.068E	8.9
14.6					
		1.16D	120B	0.065E	
0 - 0.1		1.19D	120B	0.068E	8.9
14.6					
		1.16D	120B	0.065E	
0.1 - 0.35	7C	0.19D	26B	0.014E	9.1
31.5					
0.1 - 0.35	7C	0.19D	26B	0.014E	9.1
31.5					
0.1 - 0.35	7C	0.19D	26B	0.014E	9.1
31.5					
0.15 - 0.25					
0.35 - 0.75	<2C	0.08D	17B	0.008E	6.4
27.5					
0.35 - 0.75	<2C	0.08D	17B	0.008E	6.4
27.5					
0.35 - 0.75	<2C	0.08D	17B	0.008E	6.4
27.5					
0.4 - 0.5					
0.75 - 0.95	<2C	0.11D	20B	0.008E	7.5
32.3					
0.75 - 0.95	<2C	0.11D	20B	0.008E	7.5
32.3					
0.75 - 0.95	<2C	0.11D	20B	0.008E	7.5
32.3					

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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using Sum of Cations

	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
18A1_NR	Bicarbonate-extractable potassium (not recorded)
19B_NR	Calcium Carbonate (CaCO3) - 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
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
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)

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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)