Project Name: Nyabing Kukerin land resourcs survey

Project Code: NYA Site ID: 0492 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality:

Date Desc.:29/02/96Elevation:320 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6296600 AMG zone: 50 Runoff: No Data Easting/Lat.: 621350 Datum: AGD84 Drainage: Well drained

<u>Geology</u>

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

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% Pattern Type: Rises

Morph. Type:Mid-slopeRelief:25 metresElem. Type:HillslopeSlope Category:No DataSlope:2 %Aspect:135 degrees

<u>Surface Soil Condition</u> Hardsetting, Hardsetting

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

Soil Classification

 Australian Soil Classification:
 Mapping Unit:
 N/A

 Ferric-Sodic Mesotrophic Brown Kandosol
 Principal Profile Form:
 Dy4.11

 ASC Confidence:
 Great Soil Group:
 N/A

All necessary analytical data are available.

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

Vegetation

<u>Surface Coarse Fragments</u> 20-50%, medium gravelly, 6-20mm, subrounded, ; No surface coarse

fragments

Profile Morphology

A11 0 - 0.1 m Brown (10YR4/3-Moist); , 0-0%; Clayey fine sand; Single grain grade of structure; Sandy

(grains prominent) fabric; Dry; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments;

20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Many, very fine

(0-1mm) roots;

Abrupt, Smooth change to -

B1c 0.1 - 0.2 m

Sandy (grains

 $Yellowish\ brown\ (10YR5/6-Moist);\ ,\ 0-0\%\ ;\ Clayey\ sand;\ Single\ grain\ grade\ of\ structure;$

prominent) fabric; Dry; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium

gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Common, very

fine (0-1mm)

roots; Abrupt, Wavy change to -

B2c 0.2 - 0.6 m

Dry; 20-50%,

 $Yellowish\ brown\ (10YR5/8-Moist);\ ,\ 0-0\%\ ;\ Sandy\ clay\ loam;\ Massive\ grade\ of\ structure;$

fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-

20mm, subrounded, ,

coarse fragments; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Clear, Irregular

change to -

C 0.6 - 1.6 m

20% , 15-30mm,

White (10YR8/1-Moist); Mottles, 2.5YR46, 20-50%, 30-mm, Prominent; , 10YR56, 10-

Distinct; Clay loam, sandy; Massive grade of structure; Dry; 20-50%, medium gravelly, 6-

20mm,

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

Nodules; Field

pH 6 (Raupach);

Morphological Notes Observation Notes

Site Notes

Soil pit in Kuringup catchment. If loamy B horizon was 30 cm or deeper would be a duplex sandy gravel

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Laboratory Test Results:

Depth	рН	1:5 EC	E Ca	xchangeable	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	N.	Na Cmol				%
0 - 0.1	4.8B 5.7H 5.2B 6.2H 5.1B 6H	14B 18B 14B	3.46H	1.37	0.87	0.2	0.11J		5.9D	
0 - 0.1	4.8B 5.7H 5.2B 6.2H 5.1B 6H	14B 18B 14B	3.46H	1.37	0.87	0.2	0.11J		5.9D	
0 - 0.1	4.8B 5.7H 5.2B 6.2H 5.1B 6H	14B 18B 14B	3.46H	1.37	0.87	0.2	0.11J		5.9D	
0 - 0.1	4.8B 5.7H 5.2B 6.2H 5.1B 6H	14B 18B 14B	3.46H	1.37	0.87	0.2	0.11J		5.9D	
0 - 0.1	4.8B 5.7H 5.2B 6.2H 5.1B 6H	14B 18B 14B	3.46H	1.37	0.87	0.2	0.11J		5.9D	
0.1 - 0.2	4.8B 5.9H 4.8B 6H	4B 3B	1.62H	1	0.42	0.09	0.08J		3.13D	
0.1 - 0.2	4.8B 5.9H 4.8B 6H	4B 3B	1.62H	1	0.42	0.09	0.08J		3.13D	
0.1 - 0.2	4.8B 5.9H 4.8B 6H	4B 3B	1.62H	1	0.42	0.09	0.08J		3.13D	
0.2 - 0.6	5.4B 6H	5B	1.03H	3.02	0.18	0.19			4.42D	
0.2 - 0.6	5.4B 6H	5B	1.03H	3.02	0.18	0.19			4.42D	
0.4 - 0.5	5.5B 6.1H	4B								
0.6 - 0.9	5.4B 5.6H	6B	0.33H	3.09	0.02	0.22	0.02J		3.66D	

Project Nam Project Code Agency Nam	e: NÝ	A	ukerin la S e Weste	ite ID:	0492	ırvey	Observation	1	
0.6 - 0.9	5.4B 5.6H	6B	0.33H	3.09	0.02	0.22	0.02J		3.66D
0.9 - 1.3	5.3B 5.6H	8B	0.08H	3.36	0.03	0.38			3.85D
0.9 - 1.3	5.3B 5.6H	8B	0.08H	3.36	0.03	0.38			3.85D

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	Size Analysis FS Silt	3
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.1 4.8		2.29D		210B	0.183E				4.2	
0 - 0.1 4.8		2.47D 2.29D		220B 210B	0.183E				4.2	
0 - 0.1 4.8		2.47D 2.29D		220B 210B	0.183E				4.2	!
0 - 0.1 4.8		2.47D 2.29D		220B 210B	0.183E				4.2	:
0 - 0.1 4.8		2.47D 2.29D		220B 210B	0.183E				4.2	:
0.1 - 0.2 11.1		2.47D 0.5D		220B 51B					3	
0.1 - 0.2 11.1		0.5D		51B					3	
0.1 - 0.2 11.1		0.5D		51B					3	
0.2 - 0.6 29.9		0.24D		41B					3.1	
0.2 - 0.6 29.9		0.24D		41B					3.1	
0.4 - 0.5 0.6 - 0.9 40.4		0.06D		26B					5.9	1
0.6 - 0.9 40.4		0.06D		26B					5.9	1
0.9 - 1.3 47.5		0.07D		22B					6.2	
0.9 - 1.3 47.5		0.07D		22B					6.2	

Laboratory Analyses Completed for this profile

15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
15_NR_BSa	Exchangeable bases (Ca++) - med per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - 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
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
15J_BASES	Sum of 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

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 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_600 300 to 600u particle size analysis, (method not recorded) P106001000 600 to 1000u particle size analysis, (method not recorded)