Project Name: Nyabing Kukerin land resourcs survey

Project Code: NYA Site ID: 0474 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality:

Date Desc.:19/09/95Elevation:320 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6288255 AMG zone: 50 Runoff: No Data

Easting/Lat.: 621810 Datum: AGD84 Drainage: Imperfectly drained

<u>Geology</u>

ExposureType:Auger boringConf. Sub. is Parent. Mat.:No DataGeol. Ref.:No DataSubstrate Material:No Data

Landform

Rel/Slope Class: Gently undulating plains <9m 1-3% Pattern Type: Alluvial plain

Morph. Type:FlatRelief:5 metresElem. Type:PlainSlope Category:No DataSlope:1 %Aspect:No Data

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

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

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHypocalcic Hypernatric Yellow SodosolPrincipal Profile Form:Dy2.13ASC Confidence:Great Soil Group:N/A

All necessary analytical data are available.

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

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1 0 - 0.12 m Dark grey (10YR4/1-Moist); , 0-0%; Sand; Single grain grade of structure; Dry; 10-20%,

fine gravelly,

2-6mm, subangular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm,

subangular, , coarse

fragments; Field pH 6.5 (Raupach); Abrupt, Wavy change to -

B21 0.12 - 0.3 m Light yellowish b

Light yellowish brown (2.5Y6/4-Moist); , 0-0%; Sandy medium clay; Moderate grade of

structure,

Columnar; Rough-ped fabric; Dry; Very firm consistence; Soil matrix is Slightly

calcareous; Field pH 8.5

(Raupach); Clear change to -

B22 0.3 - 0.6 m Moderate grade of Olive yellow (2.5Y6/5-Moist); Mottles, 10YR58, 2-10% , 5-15mm, Faint; Medium clay;

vioderate grade of

structure; Rough-ped fabric; Dry; Firm consistence; Soil matrix is Moderately calcareous;

Field pH 9 (Raupach);

Morphological Notes

Observation Notes

**Site Notes** 

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**Laboratory Test Results:** 

Depth	рН	1:5 EC	Ca Ex	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	•	9			(+)/kg			%
0 - 0.12	4.6B 6H	4B	1.62H	0.48	0.25	0.12	0.17J		2.47D	
0 - 0.12	4.6B 6H	4B	1.62H	0.48	0.25	0.12	0.17J		2.47D	

0 - 0.12	4.6B 6H	4B	1.62H	0.48	0.25	0.12	0.17J		2.47D	
0.12 - 0.32	7.5B 8.9H	15B	1.93E	4.55	0.29	2.73		9B	9.5D	30.33
0.12 - 0.32	7.5B 8.9H	15B	1.93E	4.55	0.29	2.73		9B	9.5D	30.33
0.12 - 0.32	7.5B 8.9H	15B	1.93E	4.55	0.29	2.73		9B	9.5D	30.33

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	Size Analysis FS Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%
0 - 0.12 5		1.34D						91.5	3.5
0 - 0.12 5		1.34D						91.5	3.5
0 - 0.12 5		1.34D						91.5	l 3.5
0.12 - 0.32 31.5	<2C	0.2D						65.5	I 3
0.12 - 0.32 31.5	<2C	0.2D						65.5	I 3
0.12 - 0.32 31.5	<2C	0.2D						65.5	I 3

## **Laboratory Analyses Completed for this profile**

15_NR_BSa 15_NR_CMR 15C1_CA pretreatment for	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+) - 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	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 19B_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  Calcium Carbonate (CaCO3) - Not recorded  Electrical conductivity or soluble salts - Not recorded  pH of soil - Not recorded						
4B1 6A1_UC	pH of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black method						

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Observation 1

P10\_gt2m P10\_NR\_C P10\_NR\_S P10\_NR\_Z > 2mm particle size analysis, (method not recorded) Clay (%) - Not recorded Sand (%) - Not recorded Silt (%) - Not recorded