Project Name: Nyabing Kukerin land resourcs survey

Project Code: NYA Site ID: 0367 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality:

Date Desc.:08/08/95Elevation:255 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6241170 AMG zone: 50 Runoff: No Data

Easting/Lat.: 601140 Datum: AGD84 Drainage: Imperfectly drained

**Geology** 

ExposureType:Auger boringConf. 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:10 metresElem. Type:HillslopeSlope Category:No DataSlope:2 %Aspect:90 degrees

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

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

Soil Classification

Australian Soil Classification:Mapping Unit:N/ASupracalcic Subnatric 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; 0-2%, , angular, Gneiss

**Profile Morphology** 

A1 0 - 0.1 m Very dark grey (10YR3/1-Moist); , 0-0%; Clayey sand; Massive grade of structure;

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

B21 0.1 - 0.3 m Light yellowish brown (2.5Y6/4-Moist); , 0-0%; Sandy medium clay; Moderate grade of structure; Rough-

ped fabric; Dry; Very firm consistence; Soil matrix is Moderately calcareous; Field pH 8.5

(Raupach);
Abrupt change to -

B22k 0.3 - 0.45 m Light yellowish brown (2.5Y6/4-Moist); Mottles, 7.5YR56, 0-2%, 0-5mm, Faint; Medium

clay; Moderate grade of structure; Rough-ped fabric; Dry; Strong consistence; 20-50%, coarse gravelly,

20-60mm,

subangular, Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft

segregations; Soil matrix is Moderately calcareous; Field pH 9 (Raupach); Gradual

change to -

B23k 0.45 - 0.5 m Light yellowish brown (2.5Y6/4-Moist); Mottles, 2.5Y73, 10-20%, 15-30mm, Faint;

Medium clay;

Moderate grade of structure: Smooth-ped fabric; Dry; Strong consistence; 2-10%,

medium gravelly, 6-

20mm, Calcrete, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft

segregations; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

**Morphological Notes** 

B22k ??Duplicate--"many" carbonate "nodules" removed from segregations table

B23k Kaolinitic clay.

**Observation Notes** 

**Site Notes** 

"Hardsetting grey clay".

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Laboratory Test Results:
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Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Exchang Na Acidi		CEC	ECEC	ESP
m		dS/m	Oa .	wg	K	Cmol (+)/kg	·y			%
0 - 0.1	6.4B 7.2H	12B	7.22A	1.44	0.5	0.21			9.37D	
0 - 0.1	6.4B 7.2H	12B	7.22A	1.44	0.5	0.21			9.37D	
0 - 0.1	6.4B 7.2H	12B	7.22A	1.44	0.5	0.21			9.37D	
0.1 - 0.3	7.7B 8.6H	12B	5E	5.06	1.07	0.92		12B	12.05D	7.67
0.1 - 0.3	7.7B 8.6H	12B	5E	5.06	1.07	0.92		12B	12.05D	7.67
0.1 - 0.3	7.7B 8.6H	12B	5E	5.06	1.07	0.92		12B	12.05D	7.67

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Siz	ze Analysis S Silt
m	%	%	mg/kg	%	%	%	Mg/m3		Ç	%
0 - 0.1 7		1.53D							871	6
0 - 0.1 7		1.53D							87I	6
0 - 0.1 7		1.53D							871	6
0.1 - 0.3 45	<2C	0.23D							50.51	4.5
0.1 - 0.3 45	<2C	0.23D							50.51	4.5
0.1 - 0.3 45	<2C	0.23D							50.51	4.5

## **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 salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC 15C1_K 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

15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	and measured clay
	and measured day
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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded

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pH of soil - Not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black method

4\_NR 4B1 6A1\_UC 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