

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0270 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	24/07/95	<b>Elevation:</b>	330 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6291600 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	618810 Datum: AGD84	<b>Drainage:</b>	Poorly drained

#### Geology

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Landform

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

<b>Morph. Type:</b>	Crest	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

#### Surface Soil Condition Hardsetting, Hardsetting

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Mottled Natric Red Kurosol	<b>Principal Profile Form:</b>	Dr3.11
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A
All necessary analytical data are available.		

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

#### Vegetation

#### Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, angular, Quartz; 2-10%, , angular, Quartz

#### Profile Morphology

A1	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey fine sand; Massive grade of structure; Moderately moist; Field pH 6 (Raupach); Abrupt change to -
A3e	0.08 - 0.14 m	Pale brown (10YR6/3-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; Field pH 6 (Raupach); Abrupt, Wavy change to -
B2t	0.14 - 0.3 m	Reddish yellow (5YR6/6-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Distinct; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 5.5 (Raupach); Gradual change to -
B3	0.3 - 0.5 m	Red (2.5YR4/6-Moist); Mottles, 10YR72, 20-50% , 15-30mm, Distinct; Sandy medium clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Field pH 5.5 (Raupach); Clear change to -
C	0.5 - 0.6 m	Very pale brown (10YR7/3-Moist); Mottles, 2.5YR36, 20-50% , 15-30mm, Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Field pH 6 (Raupach);

#### Morphological Notes

B3	Kaolinitic clay.
C	Kaolinitic clay.

#### Observation Notes

#### Site Notes

"Hardsetting grey clay" - cotula on surface - area nearby is affected by wind erosion and clay is <5cm from surface - shows white on colour photographs.

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### Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.08	5.5B	13B	1.75A	0.91	0.19	0.3			3.15D	
	6.6H									
0 - 0.08	5.5B	13B	1.75A	0.91	0.19	0.3			3.15D	
	6.6H									
0 - 0.08	5.5B	13B	1.75A	0.91	0.19	0.3			3.15D	
	6.6H									
0.14 - 0.34	4.1B	5B	0.29H	0.66	<0.02	0.31	0.64J		1.27D	
	5.4H									
0.14 - 0.34	4.1B	5B	0.29H	0.66	<0.02	0.31	0.64J		1.27D	
	5.4H									
0.14 - 0.34	4.1B	5B	0.29H	0.66	<0.02	0.31	0.64J		1.27D	
	5.4H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3		CS FS	Silt
0 - 0.08		2.04D							88.5I	4
7.5										
0 - 0.08		2.04D							88.5I	4
7.5										
0 - 0.08		2.04D							88.5I	4
7.5										
0.14 - 0.34		0.31D							58.5I	4.5
37										
0.14 - 0.34		0.31D							58.5I	4.5
37										
0.14 - 0.34		0.31D							58.5I	4.5
37										

### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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
15E1_AL	Exchangeable Al - 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
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
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct

6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
P10_gt2m	> 2mm particle size analysis, (method not recorded)

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<b>Agency Name:</b>	<b>Agriculture Western Australia</b>	<b>Observation</b>	<b>1</b>
P10_NR_C	Clay (%) - Not recorded		
P10_NR_S	Sand (%) - Not recorded		
P10_NR_Z	Silt (%) - Not recorded		