

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0317 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	01/08/95	<b>Elevation:</b>	300 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6244550 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	621950 Datum: AGD84	<b>Drainage:</b>	Moderately well 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>	Upper-slope	<b>Relief:</b>	5 metres
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2 %	<b>Aspect:</b>	270 degrees

**Surface Soil Condition** Hardsetting, Hardsetting

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

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Hypocalcic Mottled-Mesonatric Yellow Sodosol		<b>Principal Profile Form:</b>	Dy3.13
<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** 20-50%, medium gravelly, 6-20mm, angular, Quartz; 10-20%, , subangular, Quartz

**Profile Morphology**

A1	0 - 0.05 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; 10-20%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach); Abrupt, Wavy change to -
B21	0.05 - 0.25 m	Light yellowish brown (10YR6/4-Moist); , 5YR58, 10-20% , 5-15mm, Distinct; Sandy medium clay; Strong grade of structure; Rough-ped fabric; Dry; Field pH 7.5 (Raupach); Clear change to -
B22	0.25 - 0.4 m	Pale brown (10YR6/3-Moist); , 5YR68, 10-20% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Clear change to -
C	0.4 - 0.6 m	Pale yellow (2.5Y7/3-Moist); , 5YR68, 10-20% , 5-15mm, Distinct; , 10YR81, 10-20% , 5-15mm, Distinct; Sandy light medium clay; Weak grade of structure; Dry; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);

**Morphological Notes**

C Kaolinitic clay.

**Observation Notes**

**Site Notes**

"Hardsetting grey clay".

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable Acidity	CEC	ECEC	ESP
				Mg K					

m	dS/m		Cmol (+)/kg				%
0 - 0.05	5.6B 6.5H	25B	2.6A	1.69	0.26	0.53	5.08D
0 - 0.05	5.6B 6.5H	25B	2.6A	1.69	0.26	0.53	5.08D
0 - 0.05	5.6B 6.5H	25B	2.6A	1.69	0.26	0.53	5.08D
0.05 - 0.25	6.1B 7.2H	17B	2.26A	3.62	0.13	1.44	7.45D
0.05 - 0.25	6.1B 7.2H	17B	2.26A	3.62	0.13	1.44	7.45D
0.05 - 0.25	6.1B 7.2H	17B	2.26A	3.62	0.13	1.44	7.45D

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.05 11		1.58D						83I 6
0 - 0.05 11		1.58D						83I 6
0 - 0.05 11		1.58D						83I 6
0.05 - 0.25 44		0.65D						51I 5
0.05 - 0.25 44		0.65D						51I 5
0.05 - 0.25 44		0.65D						51I 5

#### **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 for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15J_BASES	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15L1_a Sum of Cations	salts
15N1_a	Sum of Bases
15N1_b	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
3_NR	and measured clay
4_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
4B1	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
6A1_UC	Electrical conductivity or soluble salts - Not recorded
P10_gt2m	pH of soil - Not recorded
P10_NR_C	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_NR_S	Organic carbon (%) - Uncorrected Walkley and Black method
P10_NR_Z	> 2mm particle size analysis, (method not recorded)
	Clay (%) - Not recorded
	Sand (%) - Not recorded
	Silt (%) - Not recorded