

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0405 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	30/08/95	<b>Elevation:</b>	290 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6239650 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	633950 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>	Crest	<b>Relief:</b>	5 metres
<b>Elem. Type:</b>	Summit surface	<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
Ferric Mottled-Subnatric Brown Sodosol	<b>Principal Profile Form:</b>	Dy3.11
<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** 2-10%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

**Profile Morphology**

A1	0 - 0.06 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; 2-10%, fine subrounded, , gravelly, 2-6mm, subrounded, , coarse fragments; 10-20%, medium gravelly, 6-20mm, coarse fragments; Field pH 5.5 (Raupach); Abrupt, Smooth change to -
A3	0.06 - 0.1 m	Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; 10-20%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 2-10%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 5.5 (Raupach); Abrupt, Smooth change to -
B21c	0.1 - 0.15 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 5.5 (Raupach); Abrupt change to -
B22	0.15 - 0.35 m	Strong brown (7.5YR5/6-Moist); Mottles, 2.5YR40, 10-20% , 5-15mm, Distinct; Light medium clay; Weak grade of structure; Rough-ped fabric; Dry; Field pH 6 (Raupach);

**Morphological Notes**

B22 Kaolinitic clay.

**Observation Notes**

**Site Notes**

"Hardsetting grey clay".

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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 - 0.06	5.1B 6.4H	12B	2.25H	0.65	0.26	0.19	0.06J	3.35D
0 - 0.06	5.1B 6.4H	12B	2.25H	0.65	0.26	0.19	0.06J	3.35D
0 - 0.06	5.1B 6.4H	12B	2.25H	0.65	0.26	0.19	0.06J	3.35D
0.1 - 0.3	4.8B 6H	3B	2.1H	1.46	0.03	0.21	0.08J	3.8D
0.1 - 0.3	4.8B 6H	3B	2.1H	1.46	0.03	0.21	0.08J	3.8D
0.1 - 0.3	4.8B 6H	3B	2.1H	1.46	0.03	0.21	0.08J	3.8D

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS Silt
0 - 0.06 5.5		1.79D						90I 4.5
0 - 0.06 5.5		1.79D						90I 4.5
0 - 0.06 5.5		1.79D						90I 4.5
0.1 - 0.3 34.5		0.47D						58.5I 7
0.1 - 0.3 34.5		0.47D						58.5I 7
0.1 - 0.3 34.5		0.47D						58.5I 7

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM/R	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , K <sup>+</sup> ) 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 (Mn <sup>2+</sup> ) 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
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)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded