

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0333 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	02/08/95	<b>Elevation:</b>	290 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6249240 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	603840 Datum: AGD84	<b>Drainage:</b>	Imperfectly 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>	Mid-slope	<b>Relief:</b>	10 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2 %	<b>Aspect:</b>	180 degrees

**Surface Soil Condition** Recently cultivated

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

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Hypocalcic Hypernatric Grey Sodosol	<b>Principal Profile Form:</b>	Dy4.23
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A
All necessary analytical data are available.		

**Site Disturbance** Cultivation. Rainfed

**Vegetation**

**Surface Coarse Fragments** 20-50%, medium gravelly, 6-20mm, subangular, Granite; No surface coarse fragments

**Profile Morphology**

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; 20-50%, (Raupach); Sharp, Smooth change to -
A2	0.1 - 0.15 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; 10-20%, fine Irregular gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6.5 (Raupach); Abrupt, change to -
B21	0.15 - 0.4 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Sandy light medium clay; Strong grade of structure, Columnar; Rough-ped fabric; Moderately moist; Field pH 7.5 (Raupach); Gradual change to -
B22	0.4 - 0.6 m	Light grey (10YR7/2-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Clear change to -
B3	0.6 - 0.7 m	Light grey (2.5Y7/2-Moist); , 0-0% ; Clay loam; Massive grade of structure; Dry; Field pH 9 (Raupach);

**Morphological Notes**

B3 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 - 0.1	4.8B 5.6H 4.8B	8B	3.74H	1.03	0.25	0.12	0.17J		5.14D	
0 - 0.1	4.8B 5.6H 4.8B	8B	3.74H	1.03	0.25	0.12	0.17J		5.14D	
0 - 0.1	4.8B 5.6H 4.8B	8B	3.74H	1.03	0.25	0.12	0.17J		5.14D	
0 - 0.1	4.8B 5.6H 4.8B	8B	3.74H	1.03	0.25	0.12	0.17J		5.14D	
0.15 - 0.35	6.7B 7.9H	19B	2.01A	4.71	0.25	2.5			9.47D	
0.15 - 0.35	6.7B 7.9H	19B	2.01A	4.71	0.25	2.5			9.47D	
0.15 - 0.35	6.7B 7.9H	19B	2.01A	4.71	0.25	2.5			9.47D	
0.15 - 0.25	6.5B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 8		1.83D							85I		7
0 - 0.1 8		1.83D							85I		7
0 - 0.1 8		1.83D							85I		7
0 - 0.1 8		1.83D							85I		7
0.15 - 0.35 37.5		0.17D							56I		6.5
0.15 - 0.35 37.5		0.17D							56I		6.5
0.15 - 0.35 37.5		0.17D							56I		6.5
0.15 - 0.25											

**Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	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 salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	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 (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

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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)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded