

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0575 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	11/09/96	<b>Elevation:</b>	300 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6305430 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	599590 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>	Lower-slope	<b>Relief:</b>	30 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2 %	<b>Aspect:</b>	225 degrees

**Surface Soil Condition** Poached, Hardsetting

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Epiphypersodic Pedal Hypercalcic Calcarosol	<b>Principal Profile Form:</b>	Dy3.13
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A

Analytical data are incomplete but reasonable confidence.

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

#### Vegetation

**Surface Coarse Fragments** 2-10%, medium gravelly, 6-20mm, subangular, Gneiss; No surface coarse fragments

#### Profile Morphology

Ap	0 - 0.12 m	Dark brown (10YR3/3-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Dry; Very few (0 - 2
		Field pH 9
		(Raupach); Sharp, Smooth change to -
B1	0.12 - 0.25 m	Light yellowish brown (10YR6/4-Moist); , 2.5YR46, 2-10% , 0-5mm, Distinct; Light clay; Moderate grade
		of structure; Dry; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Soil matrix
		is Moderately calcareous; Field pH 9.5 (Raupach); Clear change to -
B21k	0.25 - 0.4 m	Light yellowish brown (10YR6/4-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Medium clay;
		Strong grade of structure; Moderately moist; Very many (50 - 100 %), Calcareous,
		Extremely coarse (> 60 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Abrupt change to
		-
B22	0.4 - 0.7 m	Light yellowish brown (10YR6/4-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Distinct; Medium clay;
		Strong grade of structure; Dry; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

#### Morphological Notes

#### Observation Notes

#### Site Notes

Medic dominated pasture at site

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#### Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity			%	
0.12 - 0.4	8.7B 9.6H	63B	2.96E	8.67	0.92	5.08		17B	17.63D	29.88
0.12 - 0.4	8.7B 9.6H	63B	2.96E	8.67	0.92	5.08		17B	17.63D	29.88

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0.12 - 0.4 39.5	7C	0.25D							49I		11.5
0.12 - 0.4 39.5	7C	0.25D							49I		11.5

#### 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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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