

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0229 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	13/07/95	<b>Elevation:</b>	340 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6247450 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	621240 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

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	5 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	1 %	<b>Aspect:</b>	0 degrees

#### Surface Soil Condition Hardsetting, Hardsetting

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Calcic Mesonatric Yellow Sodosol	<b>Principal Profile Form:</b>	Dy2.43
<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, subrounded, ; No surface coarse fragments

#### Profile Morphology

A1	0 - 0.06 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Moderately moist; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 6 (Raupach); Abrupt, Wavy change to -
A2e	0.06 - 0.1 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moderately moist; Field pH 6.5 (Raupach); Wavy change to -
B21	0.1 - 0.35 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 9 (Raupach); Gradual change to -
B22	0.35 - 0.6 m	Brownish yellow (10YR6/6-Moist); Mottles, 7.5YR56, 0-2% , 0-5mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

#### Morphological Notes

A2e	Not always present.
B21	Clay within 10cm, 30% of time.

#### Observation Notes

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#### Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg K	Acidity				%
					Cmol (+)/kg				

0 - 0.06	5.6B 6.8H	18B	3.22A	1	0.53	0.52				5.27D
0 - 0.06	5.6B 6.8H	18B	3.22A	1	0.53	0.52				5.27D
0 - 0.06	5.6B 6.8H	18B	3.22A	1	0.53	0.52				5.27D
0 - 0.1	5B									
0.1 - 0.3	7B 8.3H	13B	1.57E	3.37	0.13	1.51		7B	6.58D	21.57
0.1 - 0.3	7B 8.3H	13B	1.57E	3.37	0.13	1.51		7B	6.58D	21.57
0.1 - 0.3	7B 8.3H	13B	1.57E	3.37	0.13	1.51		7B	6.58D	21.57
0.15 - 0.25	7.1B									
0.4 - 0.5	8.1B									

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>			%	
0 - 0.06 3		2.19D							93I		4
0 - 0.06 3		2.19D							93I		4
0 - 0.06 3		2.19D							93I		4
0 - 0.1											
0.1 - 0.3 31	<2C	0.34D							66I		3
0.1 - 0.3 31	<2C	0.34D							66I		3
0.1 - 0.3 31	<2C	0.34D							66I		3
0.15 - 0.25											
0.4 - 0.5											

#### 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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15C1_CA pretreatment for	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - alcoholic 1M ammonium chloride at pH 8.5,
	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15J_BASES	Sum of Bases



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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