

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0353 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	07/08/95	<b>Elevation:</b>	235 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6237320 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	595820 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>	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>	90 degrees

**Surface Soil Condition** Hardsetting, Hardsetting

**Erosion** (sheet) (rill) (gully)

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Hypocalcic Mesonatric Brown Sodosol	<b>Principal Profile Form:</b>	Dy2.13
<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** No surface coarse fragments; No surface coarse fragments

#### Profile Morphology

A1	0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moderately moist; Field pH 6.5 (Raupach); Abrupt, Irregular change to -
B21	0.08 - 0.35 m	Brown (7.5YR5/4-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 8.5 (Raupach); Gradual change to -
B22	0.35 - 0.5 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR66, 2-10% , 5-15mm, Distinct; , 10YR72, 10-20% , 5-15mm, Distinct; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 9 (Raupach); Abrupt change to -
B3	0.5 - 0.7 m	Light brownish grey (2.5Y6/2-Moist); Substrate influence, 10YR81, 20-50% , 15-30mm, Distinct; Mottles, 10YR58, 2-10% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 9 (Raupach);

#### Morphological Notes

B21	Kaolinitic clay.
B22	Kaolinitic clay.
B3	Kaolinitic clay.

#### Observation Notes

#### Site Notes

Bare scalds due to salinity but good clover cover within 10 metre radius - slight rise adjacent to creek line - "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
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m	dS/m		Cmol (+)/kg									%
0 - 0.08	5.5B 6.2H	32B	6.18H	2.55	0.36	0.83	0.03J			9.92D		
0 - 0.08	5.5B 6.2H	32B	6.18H	2.55	0.36	0.83	0.03J			9.92D		
0 - 0.08	5.5B 6.2H	32B	6.18H	2.55	0.36	0.83	0.03J			9.92D		
0.08 - 0.3	7.6B 8.7H	28B	2.76E	4.09	0.49	2.08			10B	9.42D		20.80
0.08 - 0.3	7.6B 8.7H	28B	2.76E	4.09	0.49	2.08			10B	9.42D		20.80
0.08 - 0.3	7.6B 8.7H	28B	2.76E	4.09	0.49	2.08			10B	9.42D		20.80

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.08 10.5		2.73D						81.5I	8
0 - 0.08 10.5		2.73D						81.5I	8
0 - 0.08 10.5		2.73D						81.5I	8
0.08 - 0.3 39	<2C	0.28D						54I	7
0.08 - 0.3 39	<2C	0.28D						54I	7
0.08 - 0.3 39	<2C	0.28D						54I	7

#### **Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	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	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	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 (Mn2+) 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
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

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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