Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0252** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	19/07/95	**Elevation:**	330 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6246900 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	613960 Datum: AGD84	**Drainage:**	Poorly drained

Geology

ExposureType:	Auger boring	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Lower-slope	**Relief:**	5 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	0 degrees

Surface Soil Condition

Hardsetting, Hardsetting

Erosion

(wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
Eutrophic Hypernatric Brown Sodosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy2.11
Great Soil Group: N/A

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 - 0.1 m Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; Field pH 6 (Raupach); Abrupt, Irregular change to -

B21 0.1 - 0.3 m Brown (10YR5/3-Moist); Mechanical, 10YR31, 10-20% , 30-mm, Distinct; Sandy medium clay; Strong grade of structure, 100-200 mm, Columnar; Rough-ped fabric; Wet; Field pH 6.5 (Raupach); Clear change to -

B22 0.3 - 0.55 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 6 (Raupach); Clear change to -

B31 0.55 - 0.7 m Brown (10YR5/3-Moist); Mottles, 2.5YR46, 10-20% , 15-30mm, Distinct; Light medium clay; Massive grade of structure; Dry; Field pH 6 (Raupach); Clear change to -

B32 0.7 - 0.85 m Brown (10YR5/3-Moist); Mottles, 7.5YR56, 20-50% , 0-5mm, Distinct; Light medium clay; Massive grade of structure; Dry; Field pH 6 (Raupach);

Morphological Notes

B21 Very dark grey sand coating peds.
B31 Kaolinitic clay.
B32 Kaolinitic clay.

Observation Notes

Site Notes

Site in barley grass dominant pasture - "hardsetting grey clay".

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP

m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.1	5B 6.4H	13B	1.89H	1.32	0.09	0.85	0.09J	4.15D	
0 - 0.1	5B 6.4H	13B	1.89H	1.32	0.09	0.85	0.09J	4.15D	
0 - 0.1	5B 6.4H	13B	1.89H	1.32	0.09	0.85	0.09J	4.15D	
0.1 - 0.3	5.4B 6.5H	31B	1.68A	6.42	0.04	3.62		11.76D	
0.1 - 0.3	5.4B 6.5H	31B	1.68A	6.42	0.04	3.62		11.76D	
0.1 - 0.3	5.4B 6.5H	31B	1.68A	6.42	0.04	3.62		11.76D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3		%		
0 - 0.1		1.54D							86I		7
7											
0 - 0.1		1.54D							86I		7
7											
0 - 0.1		1.54D							86I		7
7											
0.1 - 0.3		0.55D							59.5I		6.5
34											
0.1 - 0.3		0.55D							59.5I		6.5
34											
0.1 - 0.3		0.55D							59.5I		6.5
34											

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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no 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
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)

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