Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0346** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	03/08/95	**Elevation:**	270 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6245970 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	592780 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:	Mid-slope	**Relief:**	10 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Hypocalcic Mesonatric Red Sodosol **Principal Profile Form:** Dr2.23
ASC Confidence: **Great Soil Group:** 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, subangular, Gneiss; 10-20%, , subangular, Gneiss

Profile Morphology

A1 0 - 0.1 m Dark brown (7.5YR3/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Wet; Field pH 6 (Raupach); Abrupt, Smooth change to -

A2 0.1 - 0.15 m Brown (7.5YR5/3-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Wet; 20-50%, fine gravelly, 2-6mm, subangular, Gneiss, coarse fragments; Field pH 7 (Raupach); Wavy change to -

B2 0.15 - 0.4 m Yellowish red (5YR4/6-Moist); Mottles, 7.5YR54, 10-20% , 15-30mm, Faint; Sandy light medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 7.5 (Raupach); Clear change to -

B3 0.4 - 0.5 m Yellowish brown (10YR5/6-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Distinct; Coarse sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gneiss, coarse fragments; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);

Morphological Notes

A1 Slight dispersion.
B3 Stopped by a rock.

Observation Notes

Site Notes

"Hardsetting grey clay".

Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0346** **Observation** **1**
Agency Name: **Agriculture Western Australia**

Laboratory Test Results:

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

			Ca	Mg	K	Na	Acidity		
m		dS/m				Cmol (+)/kg			%
0 - 0.1	4.7B 5.6H 4.5B	17B	3.27H	1.5	0.37	0.61	0.16J	5.75D	
0 - 0.1	4.7B 5.6H 4.5B	17B	3.27H	1.5	0.37	0.61	0.16J	5.75D	
0 - 0.1	4.7B 5.6H 4.5B	17B	3.27H	1.5	0.37	0.61	0.16J	5.75D	
0 - 0.1	4.7B 5.6H 4.5B	17B	3.27H	1.5	0.37	0.61	0.16J	5.75D	
0.15 - 0.35	6.2B 7.4H	13B	2.67A	7.77	0.16	2.11		12.71D	
0.15 - 0.35	6.2B 7.4H	13B	2.67A	7.77	0.16	2.11		12.71D	
0.15 - 0.35	6.2B 7.4H	13B	2.67A	7.77	0.16	2.11		12.71D	
0.15 - 0.25	5.9B								
0.4 - 0.5	7.3B								

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		1.57D							85.5I		7	7.5
0 - 0.1		1.57D							85.5I		7	7.5
0 - 0.1		1.57D							85.5I		7	7.5
0 - 0.1		1.57D							85.5I		7	7.5
0.15 - 0.35		0.17D							65.5I		5	29.5
0.15 - 0.35		0.17D							65.5I		5	29.5
0.15 - 0.35		0.17D							65.5I		5	29.5
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_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

Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0346** **Observation** **1**
Agency Name: **Agriculture Western Australia**

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