Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0243** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	17/07/95	**Elevation:**	315 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6252070 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	607640 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:	2 %	**Aspect:**	90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Hypocalcic Mesonatric Grey Sodosol **Principal Profile Form:** Dy2.13
ASC Confidence: **Great Soil Group:** N/A
No analytical data and little or no knowledge of this soil.

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

Vegetation

Surface Coarse Fragments 2-10%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile Morphology

A1 0 - 0.06 m Dark grey (2.5Y4/1-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Moist; Field pH 6 (Raupach); Abrupt, Wavy change to -

B21 0.06 - 0.5 m Light brownish grey (2.5Y6/2-Moist); Mechanical, 2.5Y41, 20-50% , 15-30mm, Distinct; Sandy medium clay; Strong grade of structure; Rough-ped fabric; Moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

B22 0.5 - 0.7 m Light brownish grey (2.5Y6/2-Moist); Mottles, 2.5YR46, 0-2% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure; Sandy (grains prominent) fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

B21 Cutans - top soil.

Observation Notes

Site Notes

"Hardsetting grey clay". Field textures used in classification.

Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0243** **Observation** **1**
Agency Name: **Agriculture Western Australia**

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.06	5.4B 6.4H	15B	3.98H	3.44	0.2	0.98	0.02J		8.6D	
0 - 0.06	5.4B	15B	3.98H	3.44	0.2	0.98	0.02J		8.6D	

0 - 0.06	6.4H 5.4B	15B	3.98H	3.44	0.2	0.98	0.02J		8.6D	
0.06 - 0.26	6.4H 7.1B	16B	2.56E	3.85	0.08	1.7		9B	8.19D	18.89
0.06 - 0.26	8.4H 7.1B	16B	2.56E	3.85	0.08	1.7		9B	8.19D	18.89
0.06 - 0.26	8.4H 7.1B	16B	2.56E	3.85	0.08	1.7		9B	8.19D	18.89
	8.4H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.06		1.69D							75I		9
16											
0 - 0.06		1.69D							75I		9
16											
0 - 0.06		1.69D							75I		9
16											
0.06 - 0.26	<2C	0.32D							63I		7.5
29.5											
0.06 - 0.26	<2C	0.32D							63I		7.5
29.5											
0.06 - 0.26	<2C	0.32D							63I		7.5
29.5											

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
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

Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0243** **Observation** **1**
Agency Name: **Agriculture Western Australia**

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