Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0416** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	31/08/95	**Elevation:**	280 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6246200 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	636600 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:	Flat	**Relief:**	5 metres
Elem. Type:	Valley flat	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition

Hardsetting, Hardsetting

Erosion

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

Soil Classification

Australian Soil Classification:
Eutrophic Hypernatric Grey 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

10-20%, medium gravelly, 6-20mm, subangular, Quartz; No surface coarse fragments

Profile Morphology

A1 0 - 0.1 m Dark grey (2.5Y4/1-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 7 (Raupach); Abrupt, Wavy change to -

B21 0.1 - 0.4 m Greyish brown (2.5Y5/2-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Strong consistence; Field pH 6 (Raupach); Gradual change to -

B22 0.4 - 0.6 m Light brownish grey (2.5Y6/2-Moist); Mottles, 10YR58, 0-2% , 5-15mm, Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Strong consistence; Field pH 5.5 (Raupach);

Morphological Notes

B21 Few organic cutans. Kaolinitic clay.
B22 Slickensides common. Kaolinitic clay.

Observation Notes

Site Notes

Soil at this site is similar as site NYA0415.

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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 - 0.1	6.2B 6.6H	138B	2.76A	4.95	0.53	1.28			9.52D	

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0 - 0.1	6.2B 6.6H	138B	2.76A	4.95	0.53	1.28	9.52D
0.1 - 0.3	6.3B 6.8H	176B	1.49A	6.28	0.79	5.01	13.57D
0.1 - 0.3	6.3B 6.8H	176B	1.49A	6.28	0.79	5.01	13.57D
0.1 - 0.3	6.3B 6.8H	176B	1.49A	6.28	0.79	5.01	13.57D

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 13		1.35D							78.5I		8.5
0 - 0.1 13		1.35D							78.5I		8.5
0 - 0.1 13		1.35D							78.5I		8.5
0.1 - 0.3 57		0.38D							35I		8
0.1 - 0.3 57		0.38D							35I		8
0.1 - 0.3 57		0.38D							35I		8

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
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