Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0262** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	20/07/95	**Elevation:**	295 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6247450 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	630130 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:	1 %	**Aspect:**	90 degrees

Surface Soil Condition

Hardsetting, Hardsetting

Erosion

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

Soil Classification

Australian Soil Classification:
Eutrophic Mesonatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy2.41
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

A1p 0 - 0.05 m Dark grey (10YR4/1-Moist); , 0-0% ; Clay loam, sandy; Moderate grade of structure, 2-5 mm,
Subangular blocky; Rough-ped fabric; Moist; Field pH 7 (Raupach); Abrupt, Smooth change to -

A2e 0.05 - 0.1 m Light grey (10YR7/2-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Moist; Field pH
7.5 (Raupach); Wavy change to -

B21 0.1 - 0.35 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure,
Columnar; Rough-ped fabric; Moderately moist; Field pH 6 (Raupach); Clear change to -

B22 0.35 - 0.7 m Light grey (2.5Y7/2-Moist); , 0-0% ; Coarse sandy light clay; Weak grade of structure; Sandy (grains
prominent) fabric; Moderately moist; Field pH 5.5 (Raupach); Clear change to -

B3 0.7 - 0.75 m Light grey (2.5Y7/2-Moist); Substrate influence, 10YR81, 10-20% , 0-5mm, Distinct; Light medium clay;
Moderate grade of structure; Rough-ped fabric; Dry; Field pH 5.5 (Raupach);

Morphological Notes

A1p Sticky clay
B3 Overlies white, kaolinised clay.

Observation Notes

Site Notes

"Hardsetting grey clay". Profile similar to NYA0245

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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 - 0.05	6B 6.8H	16B	4.37A	6.47	0.4	0.63		11.87D
0 - 0.05	6B 6.8H	16B	4.37A	6.47	0.4	0.63		11.87D
0 - 0.05	6B 6.8H	16B	4.37A	6.47	0.4	0.63		11.87D
0.1 - 0.3	4.8B 5.6H	47B	1.34H	6.16	0.14	2.25	0.14J	9.89D
0.1 - 0.3	4.8B 5.6H	47B	1.34H	6.16	0.14	2.25	0.14J	9.89D
0.1 - 0.3	4.8B 5.6H	47B	1.34H	6.16	0.14	2.25	0.14J	9.89D

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 - 0.05		1.45D							65I		7.5
27.5											
0 - 0.05		1.45D							65I		7.5
27.5											
0 - 0.05		1.45D							65I		7.5
27.5											
0.1 - 0.3		0.41D							52.5I		7
40.5											
0.1 - 0.3		0.41D							52.5I		7
40.5											
0.1 - 0.3		0.41D							52.5I		7
40.5											

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
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